

### Two Old Standbys of Michigan Agriculture

No more specious philosophy ever was enunciated than that embodied in the aphorism-"Whatever is, is right". Its grain of essential truth lies in the fact that those things proved in the test of time usually endure. For over seventy years The Michigan State Fair and The Michigan Farmer have played a most important part in the development and demonstration of the possibilities of agriculture in Michigan-The Land of Diversified Farms. The mists of engulfing ignorance can be dissolved away no more effectively than by reading your leading state farm journal and attending the State Fair, both of which have commanded the interest and respect of tens of thousands of Michigan people for so many years. Time would fail to tell of the many betterments effected by these two old standbys of Michigan agriculture.

### The Michigan Farmer

**Editors and Proprietors** 

45 Congress St. West, Detroit, Michigan TELEPHONE MAIN 4525. YORK OFFICE-381 Fourth Are. DAGO OFFICE-111 W. Washington Street. WELAND OFFICE-101 4-1015 Oregon Ave., N.E. ADELPHIA OFFICE-261-263 South Third St. NCE ..... Vice-Pr LAWRENCE JUNNINGH AM..... WATERBURY T WEBMUTH NK A. WILKEN A LAWSON LITTELL MILTON KELLY I. R. WATERBURY ..... Business Manager TERMS OF SUBSCRIPTION: All sent postpaid. ption 5.0 a year extra for poste RATES OF ADVERTISING ype measurement, or \$7.00 per inch) per insertion. No adv't .50 each insertion. No objec-inserted at any time an \$1 Standard Farm Papers Association and Audit Bureau of Circulation. Intered as Second Class Matter at the Post Office at Detroit, Michigan, Under the Act of March 3, 1879 VOLUME CLIII NUMBER NINE DETROIT, AUGUST 30, 1919

### CURRENT COMMENT

A Tempest in the Milk Pail

I T required a severe jolt to bring breeders of Holstein-Friesian dairy cattle to a realization of the fact that the great mass of

dairy farmers of America are looking to them to furnish seed stock capable of high uniform production rather than a few exceptional individuals with phenomenal seven-day butter-fat records. Of 'course, a cow capable of producing an enormous amount of milk with an abnormal percentage of butter-fat must, of necessity, be a heavy producer for the year, yet a study of the milk and butter-fat records of famous cows indicates that many excellent yearly producers have failed to develop exceptional speed for the Wilson in announcing the decision of shorter race.

reality; we do not desire to belittle be heeded by labor leaders in all lines the achievements of honest men who of industry. There is no question that are in the breeding business to im- the President has spoken wisely in the prove the productive capacity of so statement to the effect that in the pre-valuable an animal as the dairy cow, vailing industrial unrest we are facing but so far as practical utility is con- a situation which is quite likely to af-cerned we doubt very much the value fect the happiness and prosperity, and cerned we doubt very much the value fect the happiness and prosperity, and to demonstrate the feasibility of cenof such individuals from the stand- even the lives of our people more ser- tralized rural schools and may in the point of improving the dairy herds iously than the war itself. This state. end prove a blessing in disguise. of the country. In the first place a ment may easily prove prophetic if few such records have done the breed there is not a general realization as a whole, more harm than good, in- among labor leaders that further ad- Living Cost asmuch as it has created a desire on vances of wage scales under present the part of wealthy men and speculat- conditions will tend to aggravate rathors to reach out for such prepotent er than remedy the general unrest by blood in order that they might obtain forcing a further advance in living control of it before men with less cap- costs which otherwise have probably ed as a serious problem when comparital could get a stream of it coursing reached their peak. through the veins of the animals in their herds.

use of farm-grown feeds, but it has any department of production, with the creat of torong the type and uni- result that the price of the goods pro- of their war expenditures and indus- is too low. Saturday, August 23. formity of the cows used for breeding duced must be increased to the con- trial disorganization. Present quotapurposes. Few experienced breeders sumer in a degree out of proportion to tions of the English pound sterling in will deny that the improvement of the any possible further increase in his our money market indicates a depreci-type of Holstein-Friesian cattle has wage scale. failed to keep pace with the sevenday. Nor is this taking into account the currency as compared with American production records made by a few of increased difficulty in the normal pro-dollars, while present quotations of the breed' and during the present quotations of the present quotations of the present quotations of the present quotations of the breed' and during the present quotations of the present quotations o

The the water standards searches and the second the

The Lawrence Publishing Co. wealthy men and cow jockeys are mation relating to the economics of will buy only fifty cents worth of Amcows of their breeds rather than to at- the present time. tempt to make capital out of the mistakes of their fellow breeders. The small breeders and the dairy farmers of the country demand the real facts and unless they are promptly furnished the whole dairy industry is going to suffer great injury in the years to come

Michigan breeders of Holstein-Friesian cattle, although they have furnished the foundation animals for most of the famous herds of the country, have seven-day records. As a class they have always found it more profitable to breed uniformly high producers than to sacrifice quality and uniformity of type for phenomenal production records. Even though Michigan breeders have been severely criticized for alchase their best cows and produce phenomenal records from them and their progeny they can now point with pride to their numerous thirty-pound cows, and feel that they have contributed more largely to the good of the dairy

IT is to be hoped that the appeal for Labor a labor truce until and Living conditions return to Costs a more normal basis

the Railroad Administration with re-The fifty-pound dairy cow may be a gard to demanded wage increases, will

the great producers of the breed; and right here we wish to make it plain that the same line of reasoning applies with equal, if not greater force, to some of the other great hreeds of dary costs cannot be for long the power that abnormally high wage scales and the members of the executive committee of the Holstein-Friesian Association of America, and the members of the executive costation of America, and no fairmind ef man will pass judgment upon the economic conditions surrounding buy approximately eighty-six cents in general until these men have had the business of food production, the worth of American goods as measured in general until these men have had the business of food production, the worth of American goods as measured in general until these men have had the business of food production, the worth of American goods as measured in general until these men have had the business of food production, the worth of American goods as measured in the section of the state and the section of the state in the section of the state in the business of food production, the worth of American goods as measured in the section of the great ware.

found guilty of falsifying records or production clearly rests with the pro- erican goods; a dollar's worth of doing anything to knowingly perpe; ducers themselves. They cannot ex- French money only forty-two cents trate a fraud they must be given a pect other classes to secure this infor- worth; and a dollar's worth of German swift and just recompense as well as mation on their own initiative. Hence money only twenty cents worth. When the fellows who actually did the dirty the desirability of a comprehensive or- these values are compared with the work. Ambitious breeders of other ganization along the lines of the State shrunken purchasing value of our own breeds of dairy cattle will do well to Farm Bureaus which are being rapidly dollar, we have a better realization of investigate the reliability of the rec- developed in many of our leading agri- the high cost of the living problem ords made by some of the famous cultural states, including Michigan, at which confronts the peoples of coun-

School

RECENT state-The Rural member of the State Problem

ers in Michigan this year has a direct people may be saved from starvation, and important bearing on the country school problem. Naturally this short. ducts be maintained and our own conage will be felt in country school dis- tinued prosperity thus assured. never chased the rainbow of high tricts where small schools with only a few pupils in attendance are maintained, and for this reason small wages are paid the teachers. The better jobs in city and village schools which pay better salaries will be first filled and the smaller country schools will take lowing men from other states to pur-out. With the prospect that a very such teachers as are left or go withconsiderable number of schools will not be able to find suitable teachers to start the school year, the only remedy in sight would be the transportation of pupils to nearby schools where covenant to the foreign relations com-teachers are obtainable. Thus eco- mittee of the United States Senate. teachers are obtainable. Thus ecoindustry and the great black-and-white breed, than those who have allowed commercial cleverness to dull their sense of intrinsic value in breeding cattle. T is to be hoped districts along the lines which have been advocated by many educators M EXICO asks the United States to withdraw troops who are pur-during recent years. For a number of suing the bandits who held American districts along the lines which have years the Michigan law has made the consolidation of rural schools into

made by President township unit systems feasible and easy where this has been considered but the plan has not attained general favor among country people largely, we believe, on account of the transpor-

### W HILE the problem of the high cost of living has

Comcaused not a little unparisons rest in this country, it cannot be consider-

ed to the plight in which the people of Economists have pointed out the fact the belligerent countries of war strickthat in the distribution of goods from en Europe find themselves. Present their herds. Not only has the use of the seven-day record as a basis of selection of breeding animals retarded the develop-ment of uniformly high producing cows, capable of making economical use of farm-grown feeds, but it has resulted in lowering the type and uni-result that the price of the goods pro-of the goods pro-of their war expenditures and indus-that in the distribution of goods from en Europe find themselves. Present the control of sugar prices, fixing elev-en cents as the cost to consumers.-Herbert Hoover, head of the Interna-tional Relief Association declares it more and the prices which the people of foreign muneration demanded by producers in ed in this country due to the lessened result that the price of the goods pro-of their war expenditures and indus-is too low. Few experienced breeders sumer in a degree out of proportion to tions of the English pound sterling in at producers of the breed; and duction of food stuffs if wage scales Italian lire show a depreciation of ap-

abundant opportunity to sift things to impending crisis will not have been by the present purchasing value of our tries named.

We also gather an appreciation of the futility of the sometime proposed A ment issued by a embargo scheme to reduce the cost of living in this country. We can Board of Education to also appreciate, in a measure, the the effect that there necessity of the extension of business would be a shortage credit to those countries for needed of more than five hundred school teach. goods not only to the end that their but that a market for our surplus pro-

News of the Week

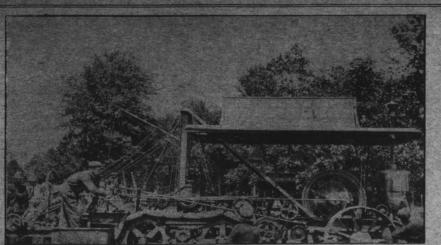
### Wednesday, August 20. G ENERAL PERSHING visits Ital-ian battlefields.—The lower house of congress repeals the daylight saving law by a vote of 223 to 101 over Pres-ident Wilson's veto.—Serious damage is done French vineyards by a heat wave which reaches 140 degrees F, in some districts.—The towns of East Helena and Monarch, Mont., are threat towns of East ened by forest fires.—President Wil-son interprets the League of Nations

aviators for a ransom.—President Wil-son defays speaking tour to hasten-consideration of the peace treaty by the United States Senate.—Italian troops are moving toward the Hungarian frontier.—Six persons and fifteen injured in a head-on collision between two Pere Marquette trains at Grawn, Michigan.—Governor Sleeper suggests ate confirms the nomination of A. Mitchell Palmer as United States At-

### torney-general. Friday, August 22.

FOUR Mexican bandits are killed by American troops in Mexico, while American troops in Mexico, while two American fliers are missing.—The examination of witnesses reveals the practice of wasteful and indirect mar-keting methods, price fixing agree-ments among wholesafers, middlemen and manufacturers.—Quebec greets the Prince of Wales who lands at the ancient capitol of French Canada,— The federal government resumes ac-tive control of sugar prices, fixing elev-en cents as the cost to consumers.—

OWER House of Congress amends ment.-In the investigation by



The Tractor Ditcher at Work in St. Clair County.



Mr. Robey, with Cap, in Center, Supervising the Work.

# Better Drains at Less Cost

E carried on in St. Cl. carried on in St. Clair county at the present time is attracting

results are being attained which are specialist at the college, about eighty therefore unsatisfactory systems. of interest and value to the entire per cent of the land in the county As a result, the decision was reachstate, as well as to St. Clair county. needs drainage, while before the pres- ed to secure a traction ditcher or Nearly three hundred acres, scattered ent work was started practically no trenching machine, capable of coverover the county in twenty-five-acre under-drainage had been put in in the ing large areas in a single season. The tracts on a dozen different farms, are county. In general, St. Clair has a great drawback in hand drainage work being tile drained in the operation, which is being handled under the direction of the Extension Division of the Michigan Agricultural College.

Michigan's general drainage problems are too well known to need any special emphasis. It can be safely stated that in many of the counties of the state there is no other thing which has reduced the yield of crops more during the last few years than the need of tile drainage. Much of the most valuable land of Michigan is producing either no crop at all or only a small percentage of what it could produce were it adequately drained. The value of drainage has been demonstrated by literally hundreds of years of experience, and the problem facing the drainage men of the state today is not one of whether or not drainage will pay, but rather one of finding the best level clay soil, with a quantity of sand, next step was to line up the tracts up- The county drain commissioner recentwhile.

divided into two groups: 1. The rec- eral years. lamation of swampy areas by exten- For these reasons St. Clair county show the results of thorough drainage flect the general interest in drainage sive ditching systems, usually having was picked out for drainage demon- and the machine method of installing work. In fact, it bids fair to revoluan outlet into some stream or lake. stration work, and Mr. Robey, as the it, the tracts selected were scattered tionize the farming of St. Clair county. 2. The drainage of wet lands which specialist, was put in charge. He was over the whole county in twenty-acre - Extension to Rest of State. are at present under cultivation but especially well fitted for the task, plots. The fields were also selected which are not yielding as they should. having already spent two years in the along main highways where the results Mechanics Department at the Michi-The work in St. Clair county deals al- vicinity laying out drain systems and of the work may be observed, for in- gan Agricultural College, who has gentogether with the second type of drain- assisting farmers in purchasing tile terest in the drainage is already bring- eral supervision of the drainage work, age. Although the reclamation of and getting the work done. The coun- ing visitors from far and wide. swampy sections is of great import- ty farm bureau cooperated in the ance, the drainage of wet cultivated work. lands seems, from many points of view to offer an even greater field, and it is this phase of the work which is being Robey reached the conclusion that the ter than one hundred rods a day, a the state will be the means used to taken up in the St. Clair project.

St. Ciair Problems Typical.

### By J. B. Hasselman



Using Team and Board Scraper in Covering the Tile.

methods and showing that the neces- and is not high above the level of the on which the work was to be done, ly remarked to Mr. Robey: "Every sary expense of installation is worth lake. In addition to the above, water and nearly three hundred acres were time you do any drainage work in a and unfavorable seasons had been quickly and easily secured. Inasmuch section of the county I have a new Drainage problems may be roughly ruining the crops in St. Clair for sev- as the fundamental purpose of the batch of petitions presented to me for

### Hand Methods Too Slow.

day of hand methods in ditching work speed which is partly accounted for by spread the drainage efforts. had gone by.' The scarcity of labor in the fact that the soil of the vicinity In taking up the drainage question general, and more especially of expert is suitable for machine work, being in St. Clair county to secure the serin the state, the extension men of the drainage labor, made it out of the level and free from stones. agricultural college picked St. Clair as question to do much by hand. One "I am so well pleased with the work

One Hundred Rods a Day.

ing the expectations of those in charge needed. Cooperative undertaking of After looking over the situation Mr. The machine has been putting in bet- the work by groups of farmers over

on my twenty-acre tract this year, and so satisfied that it will bring results that I am planning on draining forty state-wide attention because of the a typical "in-need-of-drainage" county. is that the slowness of the operation acres next year," said H. A. Shaw, on fact that problems are being met and According to O. E. Robey, drainage tends to encourage incomplete and whose farm one of the early tracts was worked.

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#### Soll Benefited by Drainage.

"Tile drainage not only removes the water from the surface," declares Mr. Robey, "but it also changes the character of the soil, making it easier to work. The drainage is therefore a great help during dry seasons, as well as a positive protection during wet ones. On land that needs drainage it is useless to try to increase the yield with fine seed and fertilizer and then have the crops drowned out."

Tile Bought Cooperatively.

The tile used in the St. Clair work has been bought cooperatively, at a considerable saving. Cooperation of farmers in this project is effecting a saving all along the line. It is making possible the financing of a large machine with an expert crew, and is assuring the lowest possible cost in all the operation.

Farmers in St. Clair county who are in touch with the present work are showing strong interest in the future development of drainage in the county. work was to be a demonstration to outlet drainage," and this seems to re-

H. H. Musselman, head of the Farm says that present plans call for an extension of the work into other coun-Results of the operation are exceed- ties of the state where drainage is

Already groups are getting together vices of ditching machines. One group (Continued on page 237).



Poor Drainage is a Serious Handicap to Growing Crops.



Good Drainage Produces Results and Soon Pays for Itself.

AUGUST 30, 1919.

## News of the Agricultural V NEW ENGLAND FARMERS TO JOIN tion on a commercial scale. The work policy, however, to import animals for lard, president of the United States NATIONAL FARM BUREAU. already done includes methods of slaughter and meats in larger quantic Dairy policy in the United States

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the representatives of the various New and methods of killing, dressing, pack- occur within three or four years. England states met. All the states ing and shipping, to permit small shipwere represented except Rhode Island. pers of dressed chickens and turkeys land declined in number about ten per condensers at Chehalis last month paid The Rhode Island representative did to secure the minimum of spoilage; cent and good draft horses have been the dairymen \$2.75 per one hundred not receive his notice in time owing to methods of preventing spoilage in com- worth from \$500 to \$800. The coun- pounds for milk which tested 3.8 and a mistake in the mailing.

wall, Middlebury, delegates. Mr. Thos. and shipping shrimp and sardines and people work a large number of cattle. milk to produce one case of condensed Bradlee, Burlington, also attended. best methods of shipping fresh fish to Cows and bulls are used as draft ani- milk, forty-eight tall cans, and the From Massachusetts Mr. E. F. Rich- inland cities. Investment of methods mals, as well as oxen. Oxen increased price to the jobber last month was ardson, Millis, and Mr. F. W. Burham, in canning salmon. Experiments are from about 44,000 to 58,000 head be- \$6.75 per case. There is a big dis-Greenfield, as delegates. Also Mr. R. being conducted, also, with a view to tween 1916 and 1918. Dogs also are crepancy somewhere, and what the W. Redman, Amherst. From New developing methods of drying fruits used to a considerable extent for haul- dairymen's organizations in this sec-Hampshire Mr. George A. Hill, Con- and vegetables that will preserve the ing light carts. cord, and Mr. George M. Putnam, Con- delicate flavor of the original products toocook. From Maine, Mr. George G. and to establish a permanent drying Mr. C. H. Savage, Stowers, and Mrs. S. M. Buckingham, Watertown, as dele- SWISS NOW IMPORT LIVE STOCK A BOUT fifty breeders of Jersey cat- per cow toward the purchase or con-the assembled at the home of Mr. struction of creameries in each of the Young, Turner. From Connecticut, industry in the United States. gates. Also Mr. R. E. Dodge, Stowers.

zation committee. Mr. Cornwall was dairy products in Switzerland with ers from all parts of the county left dardize the products under one name elected chairman of the meeting and the exception of sheep, which have in- their harvest work to get together in or brand, and market in quantities. Mr. George G. Young secretary. It was creased in number since the beginning honor of the Island Breed. the unanimous opinion of those pres- of the war." And thus briefly sument that all of the New England States ming up recent observations on the by herds and were closely inspected milk powder and other marketable byshould join the National Federation live stock of that country, George A. and criticized by the different breed- products thus making use of the whole and that each state should have a rep- Bell and Turner Wright, representing ers. Mr. H. F. Probert, of Jackson, milk. resentative at the national meeting in the Department of Agriculture in Eu-Michigan, gave a talk on "Breeding November. It was felt by all that this rope, report numerous other facts of and Selection," that was appreciated was a movement of far-reaching im- interest to American live stock pro- by everyone present. His talk was all portance and that it would strengthen ducers. and broaden the activities of the farm bureaus, and will be a universal or- has been critical owing to the inability for comparison in bringing out the ganization representing all the farm- to obtain oil cake and to the fact that points which he wished to illustrate. prices that are being charged by maners of the country. A proposed draft the government required a larger Even the older breeders felt that Mr. ufacturers of this fertilizer, the Unitof constitution for the national organ- amount of land to be plowed and plant- Probert had given them something to ization was formulated and matters of ed to potato and other crops than in take home and think about.

### PROSPECTS DWINDLE.

by the August estimate of the Federal Estimates on the number of cattle time stress will undoubtedly be laid on only possible justification for the insteadily dwindling. This is borne out the war. Bureau of Crop Estimates. The crop indicate a decrease in cows, but an in- the selection of the right kind of Jer- creases in price since June. estimate for the entire district now crease in yearling heifers compared sey sires. An attempt will be made stands at twenty-one per cent, against with the pre-war period. Before the to have as many sires as possible in Florida and Tennessee have combinthe previous estimate, thirty per cent. war Switzerland imported several thou- brought to this meeting and in keeping By counties in the territory, Wayne has sand cattle from other European coun- with the Pure-bred Sire Campaign twenty-two per cent; Monroe eighteen; tries every year. This supply is now which at that time will be in full Orleans and Niagara twenty-five; Wy- largely unavailable. oming, Genesee and Yates and other of twenty-eight per cent of the 1918 crop, which was seventy-five per cent of an E. E. R. average.

### PREVENT SPOILING OF FOOD.

WITH the cost of living as high as it is, permitting good food to spoil in transit and in the hands of dealers is more noticeably wasteful than ever before, says the Department of Agriculture in a statement made public recently. Yet a great deal of food is constantly lost in that way. In order to prevent as much of it as possible, the United States Department of Agriculture has made extensive laboratory studies of the bacteria that produces spoilage, have developed methods of control through sanitation, sterilization, dehydration, and refrigeration, and is putting them in opera-

ust 20, at the Westminster Club, together with model refrigerator cars, ion of the department men, this should commerce of Lewis county. mercially canned tomatoes, catsup, to- try districts appear to be very short of the dairyman pays the freight from Those present from Vermont were mato pulp, and similar articles; im- horses, but the situation apparently his farm to the condenser. It takes L. K. Osgood, Rutland, and E. B. Corn- proved methods of handling, packing, causes little concern, since the Swiss approximately one hundred pounds of

### PRODUCTS.

organization and policy were discussed. normal times. The cattle consequently PROSPECTS of an apple crop in the land were worth from \$500 to \$800, an inspiration and a help. western New York territory are nearly four times their price before

the less important fruit counties here, be imported into Switzerland, as the from the meeting. about twenty per cent of a full crop government regulations will not perbased on the last ten-year average. It mit such importations. Furthermore, is estimated that the pack will run the American investigators found no from twenty-five to forty per cent A desire on the part of breeders and grade. Scab is in large degree respon- farmers to import breeding stock, as sible for this poor quality as previous- they believe they have the best breeds

From 1911 to 1918 horses in Switzer- ing in the wrong way," he said.

### JERSEY BREEDERS MEET.

the more interesting and instructive The feed situation in Switzerland because he had a number of animals

are thinner in flesh and milk produc- three hundred head of pure-bred Jer-THE WESTERN NEW YORK APPLE tion has been greatly reduced. At the sey cattle in the county and a number phate or bulk acid phosphate without time of the observations of the depart- of new herds being established and to submitting the proposed increases, toment men, good milch cows in Switzer- these new-breeders the meeting was gether with specific data on real and

> winter meeting in Owosso and at this considers higher production costs the swing throughout the country it is ex- ministration to make available suffi-Cattle for breeding purposes cannot pected that great benefit will come cient cars for fertilizer deliveries in

#### CONDENSERS CONTROL DAIRY SITUATION IN WASHINGTON.

HAT the condensers of Washing-ton control the dairy situation now

5,380 109 1267 232 215 841 136 504 107 1253 49 205 18 459 THE FIGURES REPRESENT THOUSANDS ar BUSHELS Figures Represent Thousands of Bushels of Commercial Apples in Each State. Communication of the present after the war stringency, and that is, we are pulling out the half-worn coats and trousers that have been hanging in our closets, and wear-ing them out, instead of letting them rust out. These clothes are almost all better goods than can be bought to-day for love or money.

candling, cooling, packing and ship- ties than formerly until the Swiss combination picnic here of the dairy-A T Bellows Falls, Vermont, on Aug- ping eggs; the pre-cooling of plants, herds are again restored. In the opin- men, farmers' unions and chamber of ust 20, at the Westminster Club, together with model refrigerenter care is at the data restored. condensing interests are shaping dairy-"The tion propose to do is to take out that discrepancy."

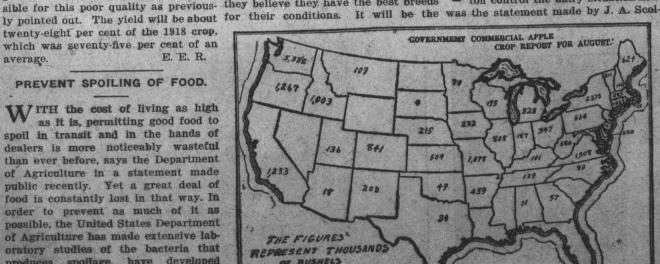
The dairymen of Lewis-Pacific and adjoining counties are pledging \$10 and Mrs. B. W. Mattoon, south of Cor- milk producing centers, he said, and unna, Shiawassee county, on Friday, it is aimed to have these plants take Mr. E. B. Cornwall, the New England THERE is a general shortage of all August 15, in their first annual picnic. all the milk the dairymen produce, representative on the national organi-Animals were brought in from near- the skim-milk in the manufacture of

### MUST SUBMIT PRICES OF ACID PHOSPHATE.

HOLDING that a shortage of acid phosphate does not justify the ed States Department of Agriculture has notified phosphate miners and acid There are already approximately phosphate manufacturers not to advance the present prices of rock phos-Plans are already being laid for the since June, 1919. The department

Strikes in Florida and car shortages ed to reduce production and shipment. To meet the shipping situation the department has urged the Railroad Adthe interest of crop production.

The prices quoted for straight acid prosphate in bags to dealers or individuals ordering thirty tons or more in the spring of 1919 was \$24 a ton f. o. b. Baltimore, Philadelphia and Carteret. The price asked for the fall trade is \$22.50 a ton. This obviously is not a reduction of thirty per centthe reduction at which the department has notified farmers they should be able to obtain mixed fertilizers in the fall of 1919. On July 30 the department notified all acid phosphate manube required to base the price of straight acid phosphate on the actual cost of the materials of manufacture and sale, plus a reasonable profit, as a separate commodity, and that the cost of manufacturing mixed goods should not be prorated on the acid phosphate.



# Miss Dairymaid Succeeds J. Barleycorn

the country, especially in those sec- and found quite a number." tions that were recently caused to

the establishment of dairy stands or food. dairy bars no one will deny if he has made a careful survey."

movement, and he is strongly of theopinion that dairy bars can be conducted successfully. The old liquor bar where beer is no longer sold, will make a splendid dairy bar where milk products can be served that will be better, and even pay better, than beer, and in time-and not a very long time at that-prove more popular than beer.

President Munn says: "There are dozens of different drinks that can be sold in a dairy bar, all of them with milk as the principal ingredient. Sweet milk charged with a little carbonated water to give it a tone makes a fine drink. Milk flavored with chocolate, cocoa or coffee and shaken sufficiently to aerate it is good; so is milk flavored with a little root beer or with sweet fruit juices and livened with carbonated water. Buttermilk lemonade is one of the best summer drinks we have, and buttermilk enlivened with charged water is delicious."

These are just a few suggestions of what could be served at such a bar. Others could be mentioned, everyone of which is a delicious, foamy, satisfying, healthful beverage that has beer backed clear off the board.

sandwiches made from cottage cheese, cream cheese, neufchatel, pimento, cheeses made to order.

These would appeal to practically every man's appetite, and besides being highly palatable, they would be exceptionally nourishing to the body.

President Munn says: "When we got this idea we knew we were in for a great amount of educational work. The saloon man could not be expected to take our word for it that he could make more money selling milk than booze. We are going to try to teach him two things: The first thing is that he has been doing business heretofore on an artificial basis. Nobody who knows me would accuse me of being a crank prohibitionist. But I say it for a fact just the same, that the saloon man's business heretofore has been based pretty much upon the weaknesses of humanity. He has to turn about face in this particular. Of course, no man is going to stand up to a bar and make a hog out of himself drinking glasses of buttermilk or sweet milk products without number as he would beer or something else. It would be a lot more sensible, but he won't do it. But more men would come-more than enough to make up the deficiency. The dairy bar could be a real business, founded upon solid business principles and conducted the same way.

"The second thing we are going to attempt to teach the saloon man is the great number of ways in which milk can be utilized for drinking purposes.

cies and the opportunities created by Hampshire saloon man is responsible thing to men is concerned. the coming of prohibition. One of for much of the development of this these, the National Dairy Council, is idea. He wanted to know some new selling a glass of buttermilk for ten those engaged in the dairy industry now conducting a campaign for the es- ways in which he could utilize milk to cents will make the profits from a ten are mostly to blame. The National tablishment of dairy bars throughout serve his patrons. We experimented cent glass of beer look sick.

mourn the death of John Barleycorn. fulness of these drinks can not be basis that the dairy industry is not milk. Emphasis will be placed upon That there is a great opportunity for controverted: Milk is the one perfect sold to the public and not even sold to the fact that there is no substitute for

Mr. Munn is quite sure that no great difficulty will be encountered in edu- production of milk is shown by the tective foods indispensable to growth President M. D. Munn, of the Na- cating the business man, and the la- fact that while the country's popula- and health. Life is prolonged and tional Dairy Council, is fostering this boring man as well, into the use of tion increased two per cent during the many diseases avoided by a liberal use

beer.

majority.

sage is going to get results. Never case.

who possesses a big business asset in like. In the first place, the average boycott milk and its products as a saloon is clean, while many a restau- means of reducing prices. Of course, rant and soda fountain is not. The they have the best of intentions, but waiters in the saloon are courteous it is only evident that such action will and efficient. The service in the sal- tend to decrease production and make

for wheat.

cient men and women without milk

Many cases are at hand where var-

Five Queens of the Dairy World.

PROHIBITION has brought many We have been giving earnest thought oon and the saloon restaurant is built prices still higher, to say nothing of changes and more are coming, to this for a long time. And I may as on an intimate knowledge of what the impairment of child growth and Various business elements are al- well admit while I am about it, that pleases men. The saloon man is in a health caused by the lack of milk. ready planning to meet the emergen- an inquiry we received from a New strong position so far as selling some- Such action by the women is mostly due to lack of knowledge and for this And the profits he will make from lack of knowledge, says Mr. Munn,

5 - 229

Dairy Council is going to try to cor-The entire campaign of the National rect this. It is going to appeal to the And the one hundred per cent health- Dairy Council is being planned on the public to increase the consumption of those engaged in it to a large extent. milk and its products, and that milk, The need for encouraging greater butter, cheese, and ice cream are proof milk and its products, and human welfare is conserved and national prosperity promoted by the development and conservation of the dairy industry.

> Mr. Munn is enthusiastic over what can be accomblished in the council and he sees a great opportunity in this direction now that prohibition is an accomplished fact.

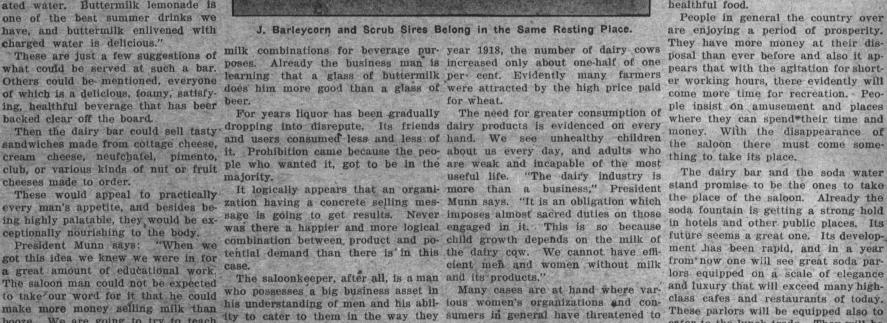
> "I am sure," says Mr. Munn, "that not only the dairy industry, but the entire country is going to prosper under prohibition as never before."

> If we can turn large numbers of saloons into dairy bars, and it is a certainty we can, it will mean a big thing in increasing the farmer's business, and in helping business in general, besides the increasing of people's efficiency as a result of using this healthful food.

> People in general the country over are enjoying a period of prosperity. They have more money at their disposal than ever before and also it appears that with the agitation for shorter working hours, there evidently will come more time for recreation. · People insist on amusement and places where they can spend their time and money. With the disappearance of the saloon there must come some-

> thing to take its place. The dairy bar and the soda water stand promise to be the ones to take the place of the saloon. Already the soda fountain is getting a strong hold in hotels and other public places. Its future seems a great one. Its developfrom now one will see great soda parlors equipped on a scale of elegance and luxury that will exceed many highclass cafes and restaurants of today. These parlors will be equipped also to cater to the lunch trade. They will be great recreation centers that will draw the public, and in these centers one will find not alone soda drinks and light refreshments and dancing and games of various kinds, but he will find dairy drinks as well, served in attractive ways, highly palatable, and pleasing to the taste. And dairy sandwiches with their variety and palatability, will find no minor place among the eatables, for the public will develop a strong appetite for these nutritious foods.

Work the mine of your own home. Dig deep into the affection of the wife and little ones. Spend more time in their company. Talk with them more. Read to them and listen while they read. Discuss the world's big ques-tions with them. Precious metal here. And don't be too busy to get better acquainted with the neighbor young folks. The man who lives near to the heart of others, lives long, well and happily. happily.



# Nation-Wide Drive for Better Stock

ment of Agriculture, in cooperation tigations in genetics, of live stock ob- bred sires and dams. with the state agricultural colleges and servations in many countries, and a Once the use of pure-bred sires be- fort. To obtain the emblem a farmer other agencies interested in live stock close study of public opinion. In most comes general throughout the country, or breeder will be asked to fill out a improvement, announces a national live stock regions of the world a grad- the process of grading up will be rap- simple blank showing the number and better live stock crusade, to get ac- ual evolution toward better live stock id. Many experiments and also prac- kind of live stock he possesses and altively into motion on October 1 under has been taking place for centuries. tical experience, when good sires are so to declare that all his male breeding the slogan of "Better Sires-Better The rapidity of these changes has an used, show that within three genera- animals are pure-bred. From the num-Stock."

ment of the multitude of scrub domes- which improvement has been greatest. semble pure-bred animals in appear- ure the progress of the crusade, and tic animals in the United States with Individual and community efforts in ance. In a few more generations, un- at the same time obtain valuable stapure-bred or high-grade stock and also many cases have resulted in marked der skillful breeding, the former scrub tistical information which will be made to improve the quality of pure-breds live stock progress' in small areas. stock is graded up to such an extent public at intervals. themselves. It has been evolved The Islands of Jersey and Guernsey that for production of meat and other The betterment of the nation's live through long and careful observation are familiar examples of this sort of animal products, they are practically stock is by no means a new idea. The of the live stock industry in this coun- accomplishment, but no large country as useful as pure-breds. The chief dif- topic has been discussed at length try and after extensive consultation so far has endeavored in an organized ference between a "high-grade" animal from public platforms and in the agriwith specialists and breeders.

For many years this country has ultaneously. domiciled thousands of the finest specscarcely two-thirds the average pro- take the task. duction in some European countries, has thousands of cows which have milk yields of more than twelve thousand pounds-double the Danish average-but on the other hand it has hundreds of thousands which are kept for milk and yet yield only a small fraction of the product of the best cows, although receiving nearly as much feed and care.

The difference in milk yield is due in large measure to a difference in breeding, but a herd of low production can be improved rapidly by the use of a pure-bred sire from a family of high producers.

Among all classes of live stock a similar condition exists. Proper breeding of beef animals results in better and more uniform stocks, having a greater percentage of desirable cuts of meat and a smaller quantity of bone, offal, and inedible parts. Likewise in swine, sheep, goats and poultry production, the kind of parent stock very largely determines the quality and

important bearing on world commerce tions most of the individuals in a scrub, ber and nature of the blanks received The plan is to hasten the replace- and on the prosperity of the nations in herd headed by a pure-bred male re- the department will be able to meas-

imens of live stock in the world, but dustry and others who have consider- Moreover only pure-breds' are eligible ing and business interests, live stock in spite of that fact the quality and ed the problem from every angle are to registry. productive capacity of the average convinced that it is possible to hasten farm herd and flock is still low. For the natural course of live stock evolu- through its cooperative state agencies progress already made and the sentiinstance, the average dairy cow in the tion with benent to the nation. They is preparing to supply live stock rais- ment for further development. United States yields only about four are confident also that the live stock ers with printed information that tells thousand pounds of milk a year, men of the country are eager to under in popular language the best animal however, now seems desirable, with a

food needs of this country's in- crusade for improvement now to be besides poultry-will be through wider every farmer agreeing to use only the -creasing population, the Depart- undertaken is the outgrowth of inves- distribution and increased use of pure- pure-bred sires and in other ways to



Hampshire Hogs Are Rapidly Gaining in Popular Favor.

OOKING forward to the future market value of the products. The two hundred million head of live stock official emblem, suitable for display, to cooperate in the better live stock ef-

way to improve all its live stock sim- and a pure-bred is in the value for cultural press for many years. Agribreeding. Only the latter can be used cultural colleges, breeders' associa-Officials of the Bureau of Animal In- in producing pure-bred breeding stock. tions, live stock organizations, bankjudges and experts-these and other The Department of Agriculture forces are responsible chiefly for the

A general coordination of the work, breeding methods and the advantages minimum of red tape and a maximum The means of accomplishing most of to be derived from their use. In addi- of red blood. So far as the activities such as Denmark. The United States the improvement-which affects about tion the department is to furnish an of the department in the crusade are concerned; the Bureau of Animal Industry, in cooperation with the state colleges of agriculture, will be responsible for live stock policies, especially the breeding work and scientific problems. The States Relations Service of the department will work in cooperation with the colleges of agriculture for carrying the plan of action through the extension divisions to every live stock owner who can be reached. County agents and other field workers of the department and the colleges will be local sources of information and assistance.

While it is believed that stockmen of the country naturally look to agricultural officials to inaugurate a crusade of this kind, the problem primarily is one of adequate production and effective distribution. Responsibility for success depends accordingly on breeders and live stock owners.

For several months the department (Continued on page 251).

# President Aitken Exposes Cole's Tests

for Advanced Registry.

then s

you of the status of the complaint closely and when testing the milk it mittee might take further action. against Charles Cole in testing animals tested two per cent less and was con- It was felt then that publicity or er-in-law, Mr. Crawford. This matter came to the attention of the previous milkings. Cole declined any further information. There evi- ted to him that he had been making the writer at Brattleboro, Vermont, then, for reasons he advanced, to dently were rumors afloat in connec- some large fraudulent records and through a conversation with the man make any further attempt with the tion with it and before either secre- when Williams showed his astonish-

to the

To the Members of the Holstein- milk this cow under re-test with smock and complete examination, and report hearing the rumors about the condi-

siderably less in pounds than had been notice might interfere with getting During the conversation Cole admitempted to make a fraudulent record at Brattleboro and he told the same tee that he had received a letter of reports from the Vermont station, had having a re-test made. The descrip- vestigation and the Holstein-Friesian liams, of Sterling, Illinois, to the effect graph, of the executive committee, described Cole as wearing a smock it, that it looked as though with the tain, of the most startling character, Chicago, and at the same time the and overalls with a rubber bottle con- information they already had that and went on at great length without chairman of the executive committee down under his overalls, the tube be- that might, perchance, lead to further to Cleveland and telegraphed him. He was willing to tell and what he had to ing long enough to reach the pail developments. It was agreed that the came to Cleveland the next day and say in relation to the tests that he had when he was sitting over it milking, state would go on, employ whatever advised the chairman of the executive been making, and any other informa-When visiting the farm Cole came to assistance was necessary, make a full committee, and the writer, that upon

Friesian Association :-- I had hoped to and overalls, and when he started to to the superintendent of the Advanc- tion in Vermont and still having full be able to wait until action had been milk one of the supervisors suggested ed Registry and the secretary of the faith in Charles Cole, with whom he taken by the executive committee or that he remove the smock. Cole de- Holstein-Friesian Association at the had made a contract to test for him, board of directors of the Holstein- clined to do that by insisting that it earliest possible moment, that the he telegraphed Mr. Cole to meet him Friesian Association before advising was not necessary. They watched him board of directors or executive com- in Buffalo and he met Mr. Cole in Buffalo. Mr. Cole had with him his broth-

who has charge of testing for Advanc- cow, said that the test was off, and tary or superintendent of Advanced ment Cole went to considerable length ed Registry in that state. This gen- refused to continue with the re-test. Registry could get a report from the into the different animals that had tleman advised me that they had re- The writer then suggested that the further investigations of the Vermont made these records. Now the chairceived information, from a source that gentlemen come with him to the board station, I received a telegram from man of your executive committee and was reliable, that Charles Cole had at- of directors who were then in session the chairman of the executive commit- the writer had the rumors and partial report from Mr. Williams that he under test in Vermont, through the in- Dean of the Agricultural College was be possible for me to meet him in had talked with Mr. Cole when there jection of cream into the milk, and asked to come and meet with the di- Cleveland. I went to Cleveland on were present only Mr. Cole, Mr. Wilthat acting upon that information the rectors. He was advised by the writ- Monday, July 28, when Mr. Reynolds, liams, and Cole's brother-in-law, Mr. state of Vermont had employed assist- er, with the sanction of the board of chairman of the executive committee Crawford, and it was then deemed ance and had sent three men to aid in directors, to go on and make his in- showed me a letter from Mr. J. Wil- advisable to call a meeting, by teletion conveyed to the Vermont Station Association would pay the expense of that he had information that was cer- for the fourth and fifth of August at taining cream underneath the smock they would be better able to get addi- giving names or any specific informa should go with Mr. Williams and inter-and a rubber tube extending from that tional information than any one else, tion. We concluded to have him come view Mr. Cole, find out just what he (Continued on page 253).



# It's all done - and no real work about it!"

"Just an hour's interesting experience in operating a most wonderful machine that does both the washing and wringing. All the hand work required was feeding the wringer and hanging out the clothes.

"I'm glad all through that I can do my own washing, independent of unreliable servants, and get a lot of real pleasure out of it besides.

"There's just enough work in a Maytag washday to keep up healthy activity and high spirits."

For rural homes where the electric current is not available, the Maytag Multi-Motor is the only practical self-contained power washer. The power is furnished by a little gasoline engine installed under the tub, easily operated and furnishing power as constant and dependable as an electric motor.

The Maytag Electric Washer, favored in electrically appointed city homes for both convenience and efficiency, is also adapted to operation in connection with any standard farm electric lighting system.

> The Maytag Household Manual will be sent by mail gratis

### THE MAYTAG CO., Dept. Newton, Iowa



LEARN AUCTIONEERING

**BARN PAINT \$1 PER GALLON** 

WE WANT VETCH. SEN D. US YOUNG-BANDOLEH SEED CO., Owosso, Mich. Please mention The Michigan Farmer when writing to advertisers.

Getting Ideas First-Hand

### By J. H. Brown

NOW anything about the septic about how to put in one o' them goldarned tanks, see if we don't." And tank business?" "Yes, a little bit. I read about off he rushed into the house.

it in the Michigan Farmer, and once And that is about the way it startheard a farmers' institute lecturer tell ed. So many farmers received circuhow to make one. But I didn't get it lars and heard in one way and another all in my head so I could go at it and about the stunt Mr. Wendt was putting on that, when the morning of the make one.'

"Well," continued the first farmer, fifteenth of July hove around, there "my wife has been at me for quite a were farmers and their wives and sons spell to put in a water system and and daughters in their automobiles, bathroom. And she says it's no big with baskets full of eating stuff, lined job to put in a septic tank, and that up in Centreville, enough to make the if I don't get at it pretty soon, she longest circus parade you ever saw will. So what am I going to do this side of kingdom come. about it?" It was a new kind of far

"Oh, well, maybe she's just bluffing tute, held in the good old summer time you. My woman does it often, I can when all sorts of things were doing on tell you, and I've got kinder used to the farms. Instead of listening to some it. Women have to talk about so institute lecturer around a big stove much, anyway."

"Mine don't. She ain't no bluffer! ago, these farmers had a great day She acts, and she's some actor, too, when she gets started. And she's mostly right about it. And that's why I've got to find out all about this septic tank business."

Another neighbor drove up in his car at this moment and noticed the two farmers talking and gesticulating. He handed out a circular to them.

"Good morning, neighbors! Here's a notice of the big St. Joseph county farmers' observation tour and picnic. It's under the auspices of our county farm bureau, and county agricultural agent, J. M. Wendt, is at the head of the big doings. We will drive through certain portions of the county and visit farms where we can actually see things being done in the way of progressive and profitable dairying, live stock breeding, the way to make poultry pay, see tests in fertilizers on different soils, see what's being done on a big muck farm in growing crops, look into one or two modern farm house kitchens, and find out how to make a septic tank for disposal of the year. There were over one hundred farm house sewage." And off the energetic farm bureau member sped on his way to stir up other farmers.

Here's right where we find out all

automobiles in line and more than five hundred people. The tour proper was arranged by

farm bureau will be to blame for it.

It was a new kind of farmers' insti-

in some hall, as we used to do years

of old times way down east.

"By golly, Jim! Did you hear what Mr. Wendt and Miss Laverne Jones, he said about septic tanks? I'm going who is home demonstration agent of right in and tell my woman about it. that county. Both were assisted by (Continued on page 244).





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AUGUST 20, 1919.

# State Holstein Breeders' Picnic

Ideal Weather and Interesting Program Bring Out Large Attendance

Agricultural College campus.

elations made by Cabana's man Cole, and close the door." regarding practices in testing certain Hon. J. M. Hackney, owner of Arden the past few years.

that is in any way clouded with sus- Michigan. picion. One thing is sure, the breeders of black-and-white cattle who are our efforts to put out our ideas through able outlet for all of the surplus ani- great, however, that we now are able mals they can produce.

big brother, explained how the college doing the most good. has come to know and understand the

eight years of our work we have dis. dustry is concerned. covered on an average of one attempt . "The Holstein-Friesian Association hogs." at fraudulent practice a year and I am has demonstrated its power as an orglad to assure you that none of these ganization during the war and the one address of President D. D. Aitken who For the first time in history tractor attempted frauds have ever slipped by. thing for us to do is to strengthen our spoke as follows: "These are strenu- machinery will immediately come into We have at various times examined organization and put over the prob- uous times in this country of ours and general use. men to prove to our entire satisfaction lem of producing more milk and but there has never appealed to me the that they carried no concealed weap- ter. Some of us doubt where we stand need of greater economy and courage wonderful field for agriculture impleons, if you please. We have at all after reading the reports of this man than now, and I want to tell you that ments, as large tracts await the plow. times used our discretion in making Cole's work, and listening to Prof. An- it is a great deal easier for some of you Great Britain has an agent already such things public, realizing that false derson, and I thank God that we have than it is for me. We are irritable and there. A farm of twenty thousand practice, or deception, on the part the men in our organization who will nervous and not a soul of us knows acres is owned by an American citizen er men were attempting or practicing punge from the records any cow under and will tell us, more before election. fraudulent methods. In all instances suspicion, no matter whom it hits. Some of them will tell us the packers we have meted out a just recompense When I heard Cele's confession I went are the cause of the high prices of for such work, and I want to say to home and said I am going to look my foodstuffs, but last year I decided to you that I am perfectly willing to cows in the face and know that their feed a few hogs as a matter of pastand back of any records made in records are true. But giving \$3,000 for triotism and when they were ready Michigan. I am going to see that ev- any one test is too much. I believe for market I called up my butcher in ery bit of precaution that the state of Mr. Cabana is an honest man and I Flint and told him that I had a nice Michigan can exert is made in keeping

our cow-testing work above suspicion. "Any man who breeds other dairy cattle who gets up on his feet and makes capital out of this unfortunate occurrence is walking on dangerous

AST Lansing was bathed in sun- ground. One thing I do want to say, look upon him as a broken-down man bunch of corn and milk-fed hogs for Michigan Holstein-Friesian Breed- where such practices have been at- want you all to reserve judgment until for them after they were dressed. The

cows, the rank and file of Holstein- Farms, of Minnesota, congratulated 000,000 to the income of the farmers of Fresian breeders of the country will the people of Michigan upon the Agri- the state. I don't want you to all get ize that if your boys are going to be eventually profit therefrom and in the cultural College and its beautiful cam- pure-bred cows, but for Heaven's sake proprietors of their own business they future will think more favorably of their twenty-five and thirty-five pound be dead within themselves if they did ure out in his head the value of a ery industry is being managed by hircows than has been the case during not get inspiration from such institu- pure-bred sire. It was the result of ed help. You must also realize the tions as these. I well remember the The Holstein-Friesian breed of dairy hard struggle we had in Minnesota to cattle occupies a position more secure get the hard-headed old farmers to un- registered Holstein cattle. I would be such tremendous losses as you are in the hearts and minds of American derstand the purpose of our work. As farmers than any one man, especially a representative of the people of the could not show a higher percentage of a self-confessed fakir, and none of us state on one of the important agricul- pure-bred dairy sires than the people ers were being paid the government have reason to doubt the sincerity of tural committees of the senate my thethe efforts of President Aitken and the ory was that we had to get the knowl- sin, where only twenty-two per cent of middlings were selling for from \$27 to members of the executive committee edge of the instructors at the college the dairy sires are pure-bred. of the American Holstein-Friesian As- across to our people. I suppose you sociation to throw out every record have faced the same problem here in

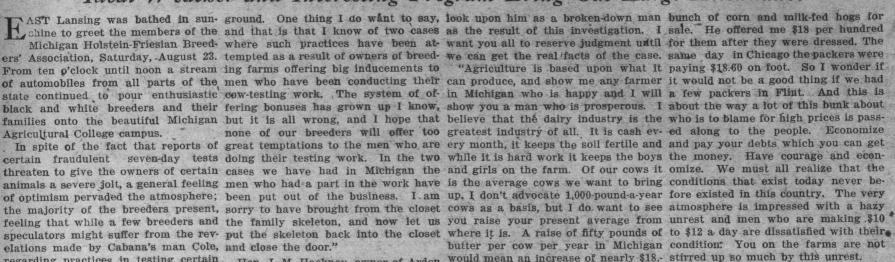
"Some of our old farmers resented to put this knowledge out into the dif-Prof. A. C. Anderson, the dairyman's ferent parts of the state where it is

black-and-white breeders of Michigan and I wish that we might have more through cow-testing work. While we of them, for they help to inspire counhave heard some unfavorable com- try people and give them a much befments regarding cow-testing work in ter impression of their business. When other states, Prof. Anderson advised you think of these old pioneers do you farming communities every farmer is every breeder to withhold all judgment not feel like taking off your hat to before hearing all sides of the case. them for making it possible for us to In discussing the cow-testing work be here and also the black-and-white in Michigan, Prof. Anderson said: "We cows. We people in the west look upare willing to stake our reputation up. on Mr. Aitken as the Governor Hoard on the reliability of the records made of the United States so far as the Holby Michigan breeders. In the past stein-Friesian breed and the dairy in-

would mean an increase of nearly \$18,- stirred up so much by this unrest. ashamed if you people in Michigan now suffering.

"These picnics are splendid things them from ancestry that have good yearly records. There will always be we are called upon to state our case." good market for good cattle and there is no end to the market for purebred Holstein cattle. In all the big realizing that he must sooner or later intensify his farming and raise dairy cattle, hogs and small stuff. Foreign begin to supply our American demand. If you can't find a profitable market chinery. for your whole milk you can sell the cream and feed the skim-milk to the

Particular interest centered in the



"You people are soon going to realure out in his head the value of a ery industry is being managed by hirusing a pure-bred sire that caused me need of better machinery and better to break into the game of breeding live stock for you cannot withstand

"A few months ago when the farmof the great dairying state of Wiscon- price of \$2.25 for their wheat, bran and \$35 per ton. Wheat is now \$2.05 and When I listened to Cole testify at bran and middlings are selling from Chicago I went home and shook hands \$50 to \$60. Have any of your bunko with my twenty-pound cows. Forget steerers attempted to remedy this conabout these forty-pound records for dition? I have heard cost plus until the lower producers are the ideal dairy it gives me the St. Vitus dance and I in a position to continue the making the young men we sent out from the cows. Annual records are sweeping want to tell you that if you are keepof credible records will find a profit- college. Our results have been so over the country and they are sure to ing scrub cows you are creating a replace the seven-day records as a greater cost than you are entitled to basis for selecting high-class dairy receive compensation for. We have sires. Seven-day records are neces. got to demonstrate the efficiency of sary for men who can't afford the long- the Holstein cow as a producer so we er ones, but in selecting sires get will be in a position to keep cost of production costs within reason when

#### NEED FOR FARM TRACTORS.

ABLEGRAM to the Department of Commerce from Consul George Horton, at Smyrna, Asia Minor, states that there is an extremely promising orders are not needed, for we cannot opportunity in that country-for American manufacturers of agricultural ma-

The Greeks are very enterprising and need machinery," says Mr. Hor-"Their security has been estabton. lished in a mandate of their country.

"The country of Asia Minor is a of some one man should have no in- sift this thing to the bottom and kick what is coming to us. Some of our on a railroad seventeen miles from fluence in creating suspicion that oth- out the guilty parties. We shall ex-politicians claim that they can tell us Smyrna. Part of this farm could be utilized as an experiment station for tractor and other machinery.

"Tractor implements are being sent to the Salonica region with instructors to teach the natives to operate and repair; this should be done here.

"I am informed by the Greek government that it is willing to pay for tractor machines sent over for introductory purposes; and also that they will place an order for twenty-thousand-horse or ox-power plows, to be used by Turkish and other refugees when they return to their farms,"



AUGUST 30, 1919.



### The Dairy Problem By E. L. Vincent

T a meeting of dairymen held recently in a city in the southern tier of. New York counties, a dairyman made the statement that it costs twice as much to buy a cow now as it did a year or two ago, adding, "you can't buy a good cow now for less than \$150 or \$200." At the same meeting another farmer spoke about the high price of hay and ground feed, asserting that he was feeding then, about the last of July, as heavily as he did in the winter, because of the short pastures, and concluding, "we can get \$30 a ton for hay. Why not sell off our cows and market the hay?"

Now, this smoke from the dairy shows where the fire is. We have more than a rumbling from all parts of the dairy field; it is a distinct thunder peal, and it means that if things go on as they are now going, one of two things will happen. We must get higher prices for milk or the cows must go to the shambles. A young farmer said to me a few days before the meeting above referred to was held, "I am going to write a letter to the Dairymen's League, telling them that we must have a higher price for milk. We cannot otherwise keep our heads above water." And this is absolutely true.

Can higher prices be established at present? If established can they be maintained? These are questions that can be answered only by future events. Still another question would naturally follow: "How will the consuming public take it if the price of milk is pushed still higher? Have we not come to the limit?"

It is prophesied by some thoughtful men that we are near to a day when the consumers will rise up and demand milk prices that shall be within the range of their ability to pay. When they do this and take the distribution, of milk into their own hands, we shall see better times both for consumers and producers. Well for all if this revolution can be brought about in a sane and sensible way, as I believe it can be, by all interests concerned sitting down together and threshing the problem out. Then dairy farmers will receive more for their milk and consumers will not be compelled to pay as much as they do now. What will become of the dealers and distributors? They will double up, so that fewer wagons will be traversing the streets, a smaller number of men employed, and expenses generally lowered.

But what concerns every dairy farmer more directly is the effect upon our farming lands if we go to the extreme of selling off our cows and relying upon the sale of hay for our revenue. Here is a serious proposition and one which if carried to its possible concluion can mean only one thing, and that the rapid deterioration of meadows and tilled fields everywhere if such a system is adopted.

In the section where I live, I now and then pass a number of farms where the plan has been tried out of disposing of the cows and depending on the hay crop for the living. These were once prosperous farms. The pastures were dotted with cows. The homes were comfortable. Barns were tidy and the fields well kept up. Today the houses are vacant. Most of

(Continued on page 250).

# Universal natural milker

One Man with Universal \* Worth Three Without It

Dear Sirs: We are using one of your milking machines and we are very much pleased with it. We find that our man can milk three times as many cows with the machine as he could by hand, and easier. We had no trouble breaking the ith for the same court mill easier. We had no trouble breaking the cows to milk, in fact, some cows milk better with the machine than by hand. Yours very truly, (Signed) H. D. ROSS & SON. By J. H. Ross. Lowville, New York.

### **Saves Time and Money Twice Every Day**

TWICE a day-730 times a year-the Universal Natural Milker saves time and adds profits for the owner of either six or 200 cows. So simple that any one can operate it.

One man can milk more cows per hour with a Universal outfit than three men by hand. Two double units will milk 30 to 40 cows per hour.

The Universal milks in Nature's way-alternately milking two teats and massaging two others while they rest and refill.

The Universal uses but one size, rubber lined teat cup, which adjusts itself, like the hand, to any size teat.

Simple, sanitary and easy to keep clean and to operate, the Universal will continue to deliver satisfactory, profit-making service for years. See our dealer or write for catalog.

The Universal Milking Machine Co., 1301 Mound Street, Columbus, Ohio

See Our Exhibit at the Michigan State Fair

**Alternates Like** Milking With Hands



AUGUST 30, 1919.

See this remarkable attachment in actual operation at the Michigan State Fair-Detroit, Aug. 29th to Sept. 7th

farm lower from Your Ford at One Sixth the ordinary cost You need this inexpensive at-When you have a job that requires power, you simply drive your Ford

tachment to fill your silo, grind your grain, thresh, saw your winter's wood, and handle any of the other jobs on the farm.

to the required position, attach the "Autopower" in THREE minutes, crank the engine, and your Ford and the "Autopower" do the rest.

An Automatic Governor regulates the power to the load, provides

CONSTANT SPEED at required r. p. m., and prevents stalling or racing of engine on variable loads.

The Auxiliary Fan is guaranteed to Prevent Overheating under all load and weather conditions. Friction Clutch permits of cranking the engine before throwing in the load.

The "Autopower" takes the power direct from the crankshaft, and delivers the full power capacity of the engine. Develops 5-14 H. P. Only the engine operates; no wear and tear on tires, rear axle, or transmission.

This attachment transforms your Ford into a powerful, economical stationary engine, eliminating any need of a high priced stationary engine on the farm. Any farmer now owning a high priced stationary engine can well afford to dispose of it and substitute the "Autopower."

Fuel Consumption of the "Autopower" is about one gallon of gas per hour—varying slightly with condition of engine and nature of load.

We Have a Liberal Proposition for Live Dealers

Here is a practically unlimited field with big profits for the first\*comers, Call on, write, or wire State Distributor now for dealer's proposition, specifying exact territory wanted.

Illustrated folder gladly mailed on request. Write Knight Metal Products Co. Manufacturers, 803 Woodward Avenue, Detroit, Mich.



Molasses Write today for lowest price TOLEDO MOLASSES CO., TOLEDO, OHIO Milch Goats For Sale. Baanen and

### Salesmen Wanted

Use your spare time profitably by representing the Michigan Farmer in your neighborhood. You can work up a pleasant and profitable business taking care of now and renewal subscrip tions for us. You will be interested in our special literature and attractive subscription rates. Address,

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Eastly Sawed By One Man. Easy to move from cut to cut. Make big profits cutting wood. Cheap and easy to operate. OTTAWA OG SAW

D-Day Trial.

in who is willing an

HERBERT W. MUMFORD, water Farm,

Practical Storage Notes

By I. J. Mathews

iceman and the groceryman, it is time stuff has also gone to waste in such to take notice. I know what it means pits. Potatoes and apples for early to pick parsnips out of the frozen spring use or sale may be easily and ground, and I have participated in pro- safely stored in these field pits. Turceedings that were more to my liking. nips, rutabagas and beets may be stor-In that, I was not alone. Practically ed in these pits, but if they must be all products of the garden and field used during the winter, the piles can be kept in a simple and inexpen- should not be made too large so that sive storage that may be constructed the danger of freezing while some are on any farm. Heretofore, only the being removed is obviated. hardy products have been thus kept Properly made, the field pit is a but the occasion demands that every- friend in disguise. The error often thing that can be preserved in storage made is in thinking that pits for all be kept.

age that must be borne in mind when warmer than the others. If potatoes planning the storage of any product. drop below thirty-five degrees in stor-An even, low temperature must be age, they take on that sweet taste maintained if possible, the product which is relished by but few in potamust be packed so that air may move toes. Hence the pit temperature must about from place to place and the be kept between thirty-five and forty amount of moisture must be maintain- degrees F. for quality potatoes. Put ed at a high point. Storage pits or the pit on a well drained location, heap cellars not provided with ample mois- the potatoes on the pile, cover liberture account for so many shriveled ally with straw. Then put on six inchand soft potatoes, apples and other es of dirt. Now another layer of straw products. The demands for moisture covered with from six to nine inches are not the same, however, for all pro- of soil completes the potato pit and if ducts. While potatoes, beets, carrots, these details are carefully followed out and cabbages keep best where the most fall potatoes should keep until moisture is abundant sweet potatoes, spring in good condition. onions, squashes and pumpkins are at their best only where the amount of the second layer of straw does not moisture in the air is relatively low. matter so much. They can stand tem-So while the cellar may be suitable peratures pretty close to the freezing for storing potatoes and the root crops point. Parsnips should be laid out to the attic gives more ideal conditions freeze before they are put into the pit. for the storage of onions, squashes Vegetable oysters and salsify should and pumpkins.

take prime stored stuff out of storage I find it some easier to put them into unless prime stuff was put in. When or remove them from a trench. My the fruits or vegetables are placed un- way is to dig a trench about eighteen der low temperature conditions, the inches deep and a foot wide. Put a ripening process is simply delayed and layer of straw in the bottom of the it is carried on much more slowly from trench. Leave the roots and leaves that on. For instance, we will take ap- on the cabbage and put it into the ples that should be ripe in another trench, roots up. Then put a layer of week if the weather continues at nine- straw in the trench but above the ty degrees F. throughout the day. If heads and cover the rest of the pit these apples are cooled to a tempera- with soil. Cabbages keep well in this ture of thirty-five to forty degrees, it long pit and may be easily removed can be readily seen that their matu- when needed for the table. rity will be much belated. In order to Root cellars are very desirable if keep the longest, apples should be kept built with a ventilator. The trouble under the same temperature as much often is that the ventilator already on as possible. Accurate records show has been nullified by having a board that any storage product decreases in put on top of it. This shuts off the value more rapidly if the storage tem- air circulation and causes the stored perature is allowed to change very materials to ripen more rapidly since much. Even temperatures keep the the heat of the root cellar is not alproduct from evaporating.

When fruits and vegetables are packed either in bulk or in containers so the storage of root crops, although that, the air cannot circulate freely, these same cellars do well for onions, there is bound to be trouble. Mois- squashes or pumpkins. Moisture is ture laden air settles into the pockets absolutely essential and must be proand then the temperature there has a vided in some way. Of course, there tendency to rise a little and between can be too much moisture. When it these two facts, molds, rots and de- collects on the potatoes, apples or othks of sac potatoes from the storage bins and Cellars often suffer from lack of venaround the outside of the sack where a ventilator or window from time to it came in contact with another. Pack time to let off warmed and foul gases. storage places.

practical for farm use.

The out-of-door pit has and will save their places.

WHEN a little straw and more many millions of dollars worth of farm soil shaped with a trifle of el- produce. May it also be said that bow grease will beat both the many millions of dollars' worth of

products should be the same. As a There are a few principles of stor- matter of fact, potato pits should be

For the other root crops and apples, also be treated in the same way.

As in canning, it is impossible to Cabbages may be stored in a pit but

ripening checked and moisture in the lowed to escape. Root cellars ought air keeps the natural moisture of the to be watched carefully and ample ventilation provided at all times.

Many house cellars are too dry for en there s too m' er materials, th found the potatoes decayed the most tilation and it is a good plan to open the products so that air can have free There is scarcely a farm product access to all parts of the bins and that cannot be successfully stored. Moreover, suitable storage is easily There are very few farmers who can provided and seldom involves a finanafford to build and maintain a regular cial burden. Let us store more this storage house unless they have spe- year than ever before, since some of cialized and have but a single crop to things we have ordinarily procured store. Out-of-door pits, root cellars from outside sources will not be availand underground cellars are the most able this year and it will be necessary to make the farm-grown products take

endure this!

Enjoy

real comfort

### GREEN FEED FOR HENS.

AUGUST 30, 1919.

N OTHING in the hen's ration is more important than green feed and it is especially important in winter. In the early fall it is best to plan on the winter's supply and take a chance on overestimating the amount needed rather than underestimating it. If the mangels have not done well, or if only a few were planted, it pays to start a late crop of turnips. Hens do not seem to like turnips as well as mangels but they will do for green feed when other materials are lacking.

Mangels are the best winter green feed and a large amount of them can be grown on a small space. Sprouted oats are greatly relished by hens, but it is some work to prepare them and oats are expensive, so many poultrymen will find that they can get along very well by using mangels and leaving out the sprouted oats. Plan on a supply of cabbages if the mangel crop is short and then feed the cabbages first and save the mangels until late in the winter as they will keep better than cabbages.

Pumpkins are liked by poultry and we find that the crop of pumpkins will not bring much money on the market and they are a bulky crop to deliver. It is much better to feed them in the winter to the hens and market them in the form of fresh eggs. Boiled pumpkin mixed with bran is a healthful food and very good for forcing the young stock or keeping the old hens healthy while confined in the laying house.

Clover is one of our best poultry feeds. It may be rolled in a cylinder of poultry wire and placed in the house where the birds can pick at it. Clover can be soaked in warm water to fresh en it and then placed in the poultry house in troughs. A fork of clean clover hay thrown on the floor of the house will keep the birds busy while they are confined during the winter or on stormy fall days.

Save all of the cull vegetables for the poultry. They can be boiled and fed in the form of a wet mash. Such feed is so much better than a straight grain ration for fowls that no flock should be without it. It tones up the birds during the winter and helps them to lay eggs. Even if the cost of eggs in winter is about the value of the eggs, the hens have to be fed something so why not give them all they need and get paid for it rather than half feed them and receive nothing for what they do get.

We have found that a few feedings each week of boiled cull potatoes are relished by the birds and it helps to reduce the cost of feeding them. At the present price of potatoes they are not economical poultry feed but there are apt to be many unmarketable culls especially after a dry season, and they can be used to advantage in the poultry mash. If there is a vegetable grower in the community some poultrymen can do well to purchase any of the cull stock which he is glad to get rid of at a very low price. Often farmers in the community raise crops of carrots, mangels, turnips or beets which do not find a ready sale on their local market and sometimes the poorer grade can be purchased by the pouleconomical investment.

One farmer in our section fed silage to his hens and they seemed to like it and it had a good influence on egg production. It might pay if some of our experiment stations would find out the value of different kinds of silage for poultry feed. The poultryman and farmers with large flocks need a cheaper source of feed and it seems as if some kind of a chicken silo might be used to advantage. Clover silage ought to be a good green feed for hens though the writer has never seen it.

R. G. K.

# Don't Go Through Another Winter With Wasteful Stove-Heating! Don't

GET rid of your coal wasting, muss-making un-healthful stoves, now and forever! In their place install a Mueller Pipeless Furnace and on the coldest winter nights enjoy the comforts of a well-heated home, moist healthful air, with the pleasant thought that you are saving from  $\frac{1}{3}$  to  $\frac{1}{2}$  on fuel. Your fuel bill at the end of the winter will prove this saving. But be sure it's a



THERE'S even greater difference in pipeless furnaces than there is a big difference in the application of these laws.

The Mueller Pipeless Furnace, the carefully designed product of an organ-ization with 62 years' experience in building heating systems of all kinds, is the only pipeless furnace that correctly applies the basic principles of pipeless heating. Every part is properly proportioned for most efficient and economical heating.

Guaranteed to Heat the Whole House Comfortably

A written guarantee goes with every Mueller Pipeless Furnace installed. Whether it's an old house or new, 3 or 4 rooms or a dozen or more, the Mueller is guaranteed to heat every room com-

up. Built to last as long as the house.

### Study the Many Exclusive Features in the **Mueller Book**

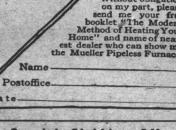
Learn how the Mueller Pipeless is built so it has greater heating surface -how the register face is made so it delivers a greater volume of heat-how the air chambors are built for free and unrestricted passage of air -how the hood and casing construc-tion effect greater efficiency.

It's all explained in a logical way in the Mueller book-"The Modern Method of Heating Your Home." Get this book to-day and plan on a fuel sav-Muelle ing winter and a comfortably heat-Furnace Co. 195 Reed Stree Milwaukee, Wis ed, cheerful, healthful home.

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Gentleme



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No other means of pumping water is as reliable, efficient and economical as a Perkins Windmill. Put up a Per-kins and your water supply problem is solved for twenty-five to forty years. It's no unusual thing for a Perkins Windmill to deliver depend-able, daily service for forty years. Many have been in use even longer.



**Attention Rve Growers** 

If you live in the southern half of Michigan you probably think you are growing Rosen Rye.

Do you know that rye cross fertilizes as readily as corn and that most of the

Inspected and Appproved by the Michigan Crop Improvement Ass'n

OSEN RYE

so-called Rosen is merely a mixture? Get started right with

One of the best. Twelve hundred explanatory illustrations, with maps, of all nations, and chronological history of world in colors. Forty-seven thousand words defined-over 600 pages. Contains concise history of English language, abbreviations, rules for punctuation, business and letter-writing forms, table of weights and measures, statistics, parliamentary rules, etc. Also latest official census.

Bound in best morocco, and is as flexible as any \$5.00 bible. Title stamped in gold, burnished pages, patent thumb index.

Sent prepaid for two subscriptions,

### Our Service Department

#### TENANT'S RIGHT TO SHADE TREES.

I am renting a farm on shares by the year, and found a crop of young shade trees planted on the farm about three years old. Have I the right to sell these trees? The lease says: "It is further agreed that said party of the second part will take care of and give the same manner of good hus-bandry toward the production and cul-tivation of certain young trees which are now growing on said premises, as first party would." Ionia Co. C. F. B. One farming on shares has no right

to anything other than the crops produced by his annual labor in the absence of greater rights explicitly given; and it is not believed that the expression above quoted would give the further right to trees before planted.

JOHN R. ROOD.

#### GROWING SWEET CLOVER.

I am writing you in regard to the sowing and growing of sweet clover. I have a five-acre field on which I can't I have a five-acre field on which I can't seem to get clover seed to grow suc-cessfully. Would you recommend sow-ing sweet clover on it? The soil is a gravelly loam, and has been broken up four years. I would like to know if I could sow sweet clover with fall rye, or if it must be sowed in the spring? Or would it be better to sow the sweet clover alone in the spring? Alcona Co. C. W. G.

Sow the inoculated sweet clover in the spring early and cover by the use a lack of exercise may result in leg of a harrow. Early spring seeding on weakness. Try a mash containing only a firm seed bed, using inoculated seed, about fifteen per cent of the corn seems to give the most satisfactory re- meal and the remainder bran. sults. The first crop the second spring plenty of green food, such as clover should be cut early, before the blos- or green rye to this mixture and also soms appear, and it should be cut high ten per cent beef scrap and five per enough so that two or three live buds cent coarse sand. Only feed the are left on the stubble. This summer amount that the birds will clean up in I have seen beautiful stands of sweet a short time. Possibly the breeding clover killed completely by cutting too stock was more vigorous when the low. The second crop is usually saved early eggs were produced and that is for seed. With the exception of the responsible for the quality of the early manner of cutting the first crop, sweet hatched stock. Heat may effect ducks biennial clover is handled exactly like but poultrymen seem to find that af-Are you disappointed with your rye yield? medium clover. It is a biennial and, ter ducklings are a week old they will like medium clover, fits nicely into a stand quite a little more heat than the three-year rotation. How we have a stand quite a little more heat than the three-year rotation.

### LAND.

I have some low mucky ground that I wish to seed for permanent pasture and will you tell me what is the best mixture of seed to use for this pur-pose, and when is the best time to often develop into weak birds. sow it? Newaygo Co. A. L. B. By balancing up the plant food in

additional. The Michigan Farmer, Detroit
J. W. Nicolson. East Lansing, Mich.

late August or early September to avoid the possibility of extreme heat and dryness during the middle of the summer.

A good mixture of grass for a permanent pasture on this land would be timothy, alsike, clover, red top, or-chard grass, and tall meadow oat grass, and it is always advisable to seed heavily, fifteen to twenty pounds of seed, enough to make a thick, heavy sod is considered advisable rather than a less amount. Usually June grass is One farming on shares has no right present so it will come in of its own accord in a short time, but on this muck land it might be advisable to add this seed also. C. C. L.

#### WORKING OUT HIGHWAY TAX.

Can we work out our highway tax, or must we pay it in cash?-W. H. R.

Under our present state laws, highway taxes must be paid in cash, just as any other taxes. Of course, people may get a chance to earn part or all of their highway taxes by getting a job from the highway commissioner or the county road commissioner as the case may be, if the commissioner is willing to employ them.

JOHN R. ROOD.

#### WEAK PEKIN DUCKLINGS.

b) or would it be bestweet in the spring?
c) or would it be bestweet alone in the spring?
Alcona Co.
C. W. G.
In this section, Missaukee county, sweet clover appears to thrive when other clovers fail. On my desk now I have a letter stating that of thirty five acres seeded this spring on one farm, only five acres which was seeded with sweet clover has survived. This is a gravelly loam soil, unlimed, but the seed was inoculated. It had not grown this crop before. The other thirty acres of medium, mammoth, and alsike came up but were not able to withstand the dry weather and grasshoppers. All of the seedings were made in oats. The writer of the letter says that he is convinced that.sweet clover or alfalfa, with their deep roots, are the best hay crops for this type of soil.
In reply to the above inquiry I would surely advise a trial with sweet clover in sual. Lime the soil if convenient, but an application of two hundred pounds of acid phosphate per acre with the clover.
Sow the innoulated sweet clover in some the clover with the clover.
Sow the innoulated sweet clover in a splication of two hundred pounds of acid phosphate per acre with the clover.
Sow the innoulated sweet clover in the cover in the application of two hundred pounds of acid phosphate per acre with the clover.
Sow the innoulated sweet clover in the spring and light. Do you think the the clover in the application of two hundred pounds of acid phosphate per acre with the clover.
Sow the innoulated sweet clover in the application of two hundred pounds of acid phosphate per acre with the clover.
Sow the innoulated sweet clover in the application of two hundred pounds of acid phosphate per acre with the clover.
Sow the innoulated sweet clover in the application of two hundred pounds of acid phosphate per acre with the clover.
Sow the innoulated sweet clover in the application of two hundred pound and that the difference with the

An excess of concentrated food and Add may occur during hot weather. It is PERMANENT PASTURE ON MUCK often due to poisons in the intestinal tract, or intestinal worms. Young ducklings hatched during the summer

Newaygo Co. A. L. B. By balancing up the plant food in There is no better time to sow grass the soil the amount of labor required seed, either for meadows or perma. for a bushel of any crop is reduced.

AUGUST 30, 1912.

### 'AUGUST 30, 1919.

We bought a place two years ago, paid cash for it, but received no deed. A man that used to own it has fore-closed his mortgage on it. Can he put us off? M. H.

This looks like a case where failure to examine the record before buying has cost the buyer his purchase price. If the mortgage was of record when this man bought he took subject to it. He would also take subject to it if he knew of it, though it was not of record, and the purchaser at the foreclosure sale can oust him by a writ of assistance. But if it was not of record, and M. H. had no notice that put him on his guard, or inquiry before he bought and parted with his purchase money, his possession would amply protect him against any subsequent acts; and though he has obtained no deed, he could still obtain due conveyance by suit in chancery.

JOHN R. ROOD.

### LINE FENCE.

I have a line fence to build. The land opposite mine is brush not used. Am I obliged to build the whole fence? C. E.

The law does not require the owner of land to fence it if he is not using it, and if the adjoining party wants to enclose his land he must build the fence. But the moment the adjoining owner. starts to use the land, the man who built the fence and owns the adjoining land can compel him to pay for JOHN R. ROOD. half of the fence.

BETTER DRAINS AT LESS COST.

(Continued from page 227).

of ten men in China township, St. Clair county, has already organized and is ready for business.

Returns Certain. "While we do not expect the benefits from drainage to show immediately," says Mr. Robey, "in many cases two crops will be sufficient to pay for the cost of installation, and in case of a wet and unfavorable season one crop will often be enough to pay for the entire cost of the drainage. There will be no better land anywhere than that in St. Clair, after it is drained."

Financial backing for drainage work is quite readily obtained, for bankers realize the value of the work. One banker in a section of the state where considerable drainage has been done,



St. Clair County, Showing Location of Twenty-acre Tracts Being Worked in Drainage Project.

recently remarked: "We have had such good returns from the loans for drainage work that we are ready to finance anyone where drains are being put in under competent supervision." Demonstrations Held.

What is probably the first public drainage demonstration day ever held in Michigan was held recently on the farm of Hiram W. Shaw, near Marine City, in St. Clair county. Another was held in St. Clair township on August 15, and future demonstrations, not only in St. Clair county but in other parts of the state as well, will give the farmers of Michigan a chance to see at first hand the actual working of machine-installed drainage.

# Its Savings Pay Its Way

The savings which Lalley Electric Light and Power makes, in money and time and labor, actually do pay its way on any farm.

We make this statement, not on any say-so of our own, but entirely on what Lalley owners tell us.

Right now the opportunity to save by installing the Lalley without delay is greater than it ever was before.

It will pay you to see the Lalley dealer at once, and learn why farmers are buying Lalley-Light at the rate of almost 1000 plants per week.

No farmer, we believe, has ever considered Lalley-Light a downright expense.

Most of our owners possibly installed the Lalley primarily for its comforts and conveniences.

They figured that these advantages more than offset the investment. And so they do.

But these men soon discovered that electric light was only one of the benefits of Lalley ownership.

They had an ample supply of electric power. They turned it to use in churning and cream separating, fanning out grain, and other light work about the barns.

Their women used it to sweep with suction cleaners; to run the washer; to do the ironing in less time.

Then the Lalley savings began to

show. The men could begin the day earlier, and do more after dark, because of the fine light. Certain tasks were done in a third or a half the time they used to take.

So the preference for Lalley grew greater and greater, until now, as we have said, it is expressed in sales of close to 1000 plants a day.

The least you can do is to see the Lalley dealer at once. It is actually true that the Lalley will begin to save for ou the day you put it in. Therefore you can't afford not

to have it. Go to the Lalley dealer now, and he will install the plant without undue delay.

Lalley-Light Corporation Detroit, Michigan **783 Bellevue** Avenue



13 - 237

See the Lalley-Light Exhibit in the Machinery Build-ing at the Michigan State Fair—Detroit—August 29th—September 7th

Lalley-Light Distributors for Michigan Ann Arbor Garage Ann Arbor, Mich. **Electrical Warehouse Company** 136 Larned Street West, Detroit, Mich. Elmer R. Paige Elkton, Mich.

Maynard L. Smith 1112 Center Street, Bay City, Mich.

THE ELECTRIC LIGHT AND POWER FOR EVERY FARM



AUGUST 30, 1919.



#### PICNICS ARE POPULAR.

M ECOSTA County Farm Bureau picnic was recently held at Horsehead Lake. And if the large crowd at this picnic is any indication of the interest in the farm bureau work, it would show that the people in general are very much alive to the necessity of the farm bureau organization. It was estimated that about nine hundred people were in attendance. Jason Woodman gave a masterly address on "The Farmer and Conditions of Farm Life."

Ottawa County Farm Bureau picnic, held at Riverside Park, near Coopersville, on August 20, was attended by about six thousand people. Mr. L. D. Hagerman is one of the live county agents of the state. He seems to have the confidence of the people in this county, and a great good is being accomplished for agriculture. The farmers of Ottawa county are anxious to help in perfecting a State Farm Bureau organization, and they say that this is the thing which must be accomplished, and is one of the real needs of farming. An interesting talk was given by Mr. Baur on "The Boys and Girls of Today." Mr. Colon C. Lillie explained some of the necessities of getting behind the farm bureau organization and helping push same forward to completion.

Lapeer county picnic was held at Lake Nepisning, August 21. This is an old established farmers' picnic, being the forty-third annual event. The attendance was not as large this year owing to several attractions in the county on the same date. However, about nine hundred people were present and the farmers showed real enthusiasm over the farm bureau organization work. L. T. Bishop, county agent for Lapeer county, is helping to bring the standard of agriculture in Lapeer county to a higher level.

A big tractor demonstration was held at the Wayne county picnic at Avondale Stock Farm, in the forenoon, lasting until about two o'clock, at which time the merits of several types of tractors were demonstrated to their advantages. There were about five thousand people in attendance, and all seemed greatly interested in the Farm Bureau organization in general. O. I. Gregg, county agent of Wayne county, is doing good work among the farmers of this county. Comfort A. Tyler acted as chairman for the afternoon program. Frank Sandhammer gave a talk on County Farm Bureau work. A very stirring address was given by Milo Campbell on "The Farmer and Farmers' Organization." Mr. Campbell is president of the National Dairyman's Association, also of the Federation of National Farm Organization. He left many challenging thoughts with the farm folks at this time.

The secretary in his work in the different parts of the state, finds that the farmers are really awakening to the necessity of an organization representing their interests. In the talks given to the farm bureau picnics he finds that a great deal of interest is taken in the explanation of the state organization and its relation to the agricultural conditions. Also in meeting with the individual farmers and talking over the situation with them, they all agree that this is the one thing necessary, and that they are ready to back up such an organization when it is put before them in the right light. They will get behind same with both financial and moral support. This first trip among the farmers of the state by the secretary of the State Farm Bureau has been very satisfactory and furnished much encouragement toward the work being done. C. B.

### What Car Now Rivals The Hudson Super-Six?

Experience Gained in Building 60,000 Super-Sixes Result in the Car Which Men Say Has No Rival

Owners of earlier Hudson Super-Sixes there are 60,000—are the most appreciative appraisers of the new model.

They know the reliability of Hudson endurance and have long said it was potentially the greatest car built. The improvements their experience has suggested have been made. Annoyances that have been regarded as inevitable to all cars have been eliminated.

With practically every dealer, his first sales of the new Hudson Super-Six were made to those who have owned Hudsons for years.

#### They Saw Qualities You Will Want

This is the tenth year of Hudson leadership. The Super-Six is four years old. When it came the trend was towards motors of many cylinders. But its freedom from vibration, obtained by a patented motor which added 72%to power without increase of size or weight was what had been sought for. Smoothness meant easier riding and greater endurance.

The Super-Six established its leadership in these qualities in every avenue open to such proof. It became the most famous speed car.

But the Super-Six was not designed as a race car. It merely established its speed qualities in the development of its value as a reliable enduring car such as you want.

Those qualities were established with the first Super-Six. Subsequent models revealed

(1083)

Hudson Motor Car Company

the refinements that came only from experience. Each year saw an advancement over previous models. This new model attains the ideal for which we have sought.

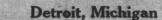
No other fine car is so well regarded by so many people. There is a Hudson Super-Six for each six miles of improved roadway in America. You will see more Hudson closedand chauffeur-driven cars on Fifth Avenue than of any other make. It is the choice car of the business man, the farmer, the rancher, the mountaineer and the tourist. With changes that can be made in any Super-Six, it is the car upon which race drivers rely to win prizes in 500-mile speedway events or in the most famous road races.

#### How It Was Improved

The new Super-Six starts easier, rides easier and runs smoother. All its excellent qualities you know are retained—in many instances, enhanced.

Owners of earlier Hudsons see its finer values as you detect the matured nature of a friend in whom you have long admired qualities of sturdiness and reliability.

Each season has seen a Hudson shortage. Reports from dealers indicate sales are increasing faster than production. Buyers have waited months to get the car of their choice. You will do well to decide now.





Please Mention The Michigan Farmer When Writing to Advertisers

# WORLD EVENTS IN PICTURES



Miss Marjorie F. Kinder, aged 14. National Junior Champion, who is competing with country's best at the National Rifle Tournament of Army, Navy and Civilian Experts on the U. S. Navy Rifle Range at Caldwell, New Jersey.



American Relief Committee Feeding Lithuanian Children – Members of the American Relief Committee feeding children in Karno, Lithuania. The committee feeds thousands throughout Poland every day.



After exciting chase twice across the ocean, resulting from a mistake in cablegram transmission, met and were married at Havre.



That the actors' strike is still progressing merrily in spite of the \$500,000 suit instituted against them, is shown by this automobile-full and their big sign. Left to right: Frances Garson, Daisy Belmote, Edna Warcker, Clara Campbell, Olga Sarianoff and Elinore Kingsley.



Glenn E. Plumb, author of the Plumb plan for the nationalization of the railroads and sharing of profits by the employes.



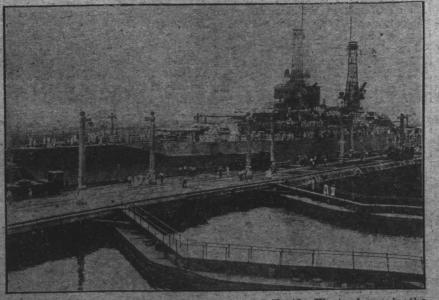
Henry Ford's Party of Famous Men at Green Island. Left to right: H. S. Firestone, Jr., H. S. Firestone, Thomas A. Edison, John Burroughs, Mayor James A. Watt, of Albany, Henry Ford, Chauncey D. Hakes and Samuel Ott.



Capt. W. V. Pratt of the U. S. S. New York inspecting crew as vessel approached San Diego.



Philippine Scouts' Team of Expert Riflemen, which came all the way from our eastern possession to compete with nation's best marksmen on the Caldwell, N. J., Rifle Range, August 4-30.

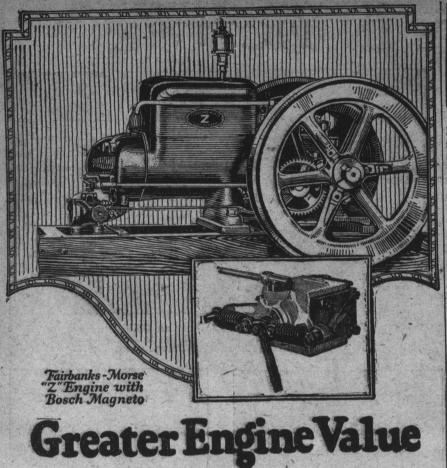


U. S. Ship New Mexico, Flagship of the New Pacific Fleet, shown in the Upper West Channel of the Gatun Locks, Panama Canal, giving Locks their severest test. Flagship with Fleet was on way to western coast.



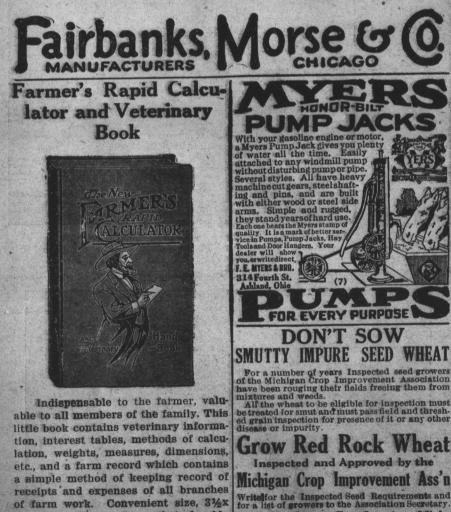
U. S. Ship Texas passing through the Gaillard Cut, Panama Canal, on its way with the New Pacific Fleet to Western Coast. Because of immense size of vessel, it had to proceed under extreme low speed to avoid sucking in towering banks of the Cut.

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The March of the White Guard -- By Sir Gilbert Parker

Fort had gathered. Indians left the had wronged him. The feeling most store and joined the rest; the Factor active in his mind was pity, and as he and Sergeant Gosse set out to meet prepared a draught from his own stock the little army of relief. God knows of medicines, he thought the past and what was in the hearts of the Chief the present all over. ' He knew that Factor and Jaspar Hume when they however much he had suffered, this shook hands. To the Factor's "In the man had suffered more. And in this Mr. Hume," there came "By the help hand of the Factor, and then they fell became forgiveness. into line again, Cloud-in-the-Sky running ahead of the dogs. Snow had and bathed his forehead, and roused fallen on them, and as they entered him once to take a quieting powder. the stockade, men and dogs were white Then he sat down and wrote to Rose from head to foot.

They were met with cries of praise, broken by an occasional choking sound from men like Sergeant Gosse. Jaspar Hume as simply acknowledged his ed him. It doesn't make any burden welcome as he had done the Godspeed of gratitude for her, if my name is two months and more ago. He with the Factor bore the sick man in, and laid him on his own bed. Then he came outside, and when they cheered London with It, Jacques, and we need him again, he said, "We have come not meet her; and it will be all right, safely through and I am thankful. But Jacques: all right!" remember that my comrades in this march deserve your cheers in this as stand; for he went over to the box much as I. Without them I could have that held It; and looked at his master. done nothing in the perils that lay be- And Jaspar Hume rose and broke the tween here and the Barren Grounds." dangers and necessities," added Jeff and he closed it again and went over Hyde, "the luck of the world was in the book!"

In another half-hour the White Jaspar." Guard was at ease, and four of them were gathered about the great stove help him." And he moistened the lips in the store, Cloud-in-the-Sky smoking placidly, and full of guttural empha- the fevered head, and then sat down sis; Late Carscallen moving his animal-like jaws with a sense of satisfacto them all; and Jeff Hyde exclaiming ing of Varre Lepage at Manitou Moun- til the Factor relieved him. tain, and of himself and Gaspe Toujours buried in the snow.

CHAPTER VII.

wife's letters-received through the Factor-clasped to his breast. The repetition of that first night after the firelight played upon a face premature- return: delirious self-condemnation. ly old-a dark disappointed face-a entreaty, and love of his wife, and Jasdoomed face, as it seemed to the old Factor.

said, after a long silence. "Yes; I knew him well, years ago,"

replied Jaspar Hume. Just then the sick man stirred in his sleep, and said disjointedly, "I'll ter the first night regarding the sub-make it all right to you, Jaspar." Then stance of Varre Lepage's delirium. But came a pause and a quicker utterance, one evening the Factor was watching Rose-I-love you-Forgive forgive!" The Factor rose and turned to go, and Jaspar Hume, with a despairing, sorrowful gesture, went over to the

bed. Again the voice said, "Ten years- did not know! She did not know!" nave repented en years -IVL Y WII par forgives me, oh, Rose!"

arm. "This is delirium," he said. "He the H. B. C." has fever. You and I must nurse him, Hume. You can trust me-you understand."

"Yes, I can trust you," was the reply. "But I can tell you nothing." "I do not want to know anything. She is at Winnipeg, and is coming If you can watch until two o'clock I west as far as Regina to meet him on will relieve you. I'll send the medi- his way down. He looks a wreck; but cine chest over. You know how to a handsome wreck! His refined featreat him."

Already the handful of people at the er was left alone with the man who name of the Hudson Bay Company, silent night there was broken down any slight barrier that might have of God, sir," and he pointed to the stood between Varre Lepage and his sled whereon Varre Lepage lay. A complete compassion. Having effaced feeble hand was clasped in the burly himself from the calculation, justice

He moistened the sick man's lips Lepage. But he tore the letter up The White Guard had come back! again and said to the dog: "No, Jacques, I cannot; the Factor must do it. She needn't know yet that it was I with the White Guard who savkept out of it. And the Factor must not mention me, Jacques-not yet. And when he is well we will go to

And the dog seemed to underseal and unlocked the box and opened "In our infirmities and in all our it; but he heard the sick man moan to the bed. . The feeble voice said, "I must speak-I cannot die so-not so-

And Jaspar Hume murmured, "God once again, and put a cold cloth on by the fire again. And Varre Lepage slept. As if some charm had been in tion; Gaspe Toujours talking in Chi- that "God help him," the restless hands nook to the Indians, in patois to the grew quiet, the breath became more French clerk, and in broken English regular, and the tortured mind found to them all; and Jeff Hyde exclaiming a short peace. With the old debating on the wonders of the march, the find- look in his eyes, Jaspar Hume sat un-

CHAPTER VIII. EBRUARY and March and April were past and May was come. Varre Lepage had had a hard N Jaspar Hume's house at midnight Varre Lepage had had a hard Varre Lepage lay asleep with his struggle for life, but he had survived. For weeks every night there was a par Hume's name mentioned now and again in shuddering remorse. With the "You knew him, then," the Factor help of the Indian who had shared the sick man's sufferings in the Barren Grounds, the Factor and Jaspar Hume nursed him back to life. Between the two watchers no word had passed afalone, and the repentant man from his feverish sleep cried out, "Hush, hush: don't let them know-I stole them both from him-and the baby died because of that; God took it-and Rose

The Factor rose and walked away Don't, don't!-I dare not speak-Jas. The dog was watching him. He said to Jacques: "You have a good mas-The Factor touched Jaspar Hume's ter, Jacques-too good and great for

### CHAPTER IX.

T is the tenth of May. In an armchair made of hickory and birch-bark by Cloud-in-the-Sky, sits Varre Lepage reading a letter from his wife. tures, his soft black beard and blue The Factor passed out and the oth- eyes, his graceful hand ' and gentle

#### AUGUST 30, 1919.

manners, one would scarcely think belonged to an evil-hearted man.' He sits in the sunlight at the door, wrapped about in moose and beaver skins. This world of plain and wood is glad. Not so Varre Lepage. He sat and thought of what was to come. He had hoped at times that he would die, but twice Jaspar Hume had said, "I demand your life: you owe it to your wifeto me-to God!" And he had pulled his heart up to this demand and had lived. But what lay before him? He saw a stony track, and he shuddered. The Bar of Justice and Restitution raised its cold barriers before him; and he was not strong.

As he sat there facing his future Jaspar Hume came to him and said, "If you feel up to it, Lepage, we will start for Edmonton and Shovanne on Monday. I think it will be quite safe, and your wife is anxious. I shall accompany you as far as Edmonton; you can then proceed to Shovanne by easy stages, and so on east in the pleasant weather. Are you ready to go?" "Yes; I am ready."

CHAPTER X.

N a beautiful May evening Varre Lepage, Jaspar Hume, and the White Guard are welcomed at Fort Edmonton by the officer in command of the Mounted Police. They are to enjoy the hospitality of the Fort for a couple of days, before they pass on. Jaspar Hume is to go back with Cloud-in-the-Sky and Late Carscallen, and a number of Indian carrier ers, for this is a journey of business too. Gaspe Toujours and Jeff Hyde are to press on with Varre Lepage, who is now much stronger and better. One day' passes, and on the following morning Jaspar Hume gives instructions to Gaspe Toujours and Jeff Hyde and makes preparations for his going back. He is standing in the Barracks Square, when a horseman rides in and inquires of a sergeant standing near, if Varre Lepage has arrived at the Fort. A few words bring out the fact that Rose Lepage is nearing the Fort from the south, being determined to come on from Shovanne to meet her husband. The trooper thinks she is now about eight or ten miles away; but is not sure. He had been sent on ahead the day before, but his horse having met with a slight accident, he had been delayed. He had seen the party, however, a long distance back in the early morning. He must now ride away and meet Mrs. Lepage, he said. He was furnished with a fresh horse and he left, bearing a message to the loyal wife from Varre Lepage. Jaspar Hume decided to leave Fort Edmonton at once, and to take all the White Guard back with him; and gave orders to that effect. He entered the room where Varre Lepage sat alone, and said: "Varre Lepage, the time has come for us to say good-by. I am starting at once for Fort Providence." But the other replied: "You will wait until my wife comes. You must."

There was pain in his voice. "I must not."

Varre Lepage braced himself for a heavy task and said: "Jaspar Hume, if the time has come to say good-by, it has also come when we should speak together for once openly: to settle, in so far as can be done, a long account. You have not let my wife account. You have not let my write know who saved me. That appears is outivator, harrows, gasoline engine, wood-saw outi, horse-com planter, faming mill, complete from her letters. She asks the name included by owner to retur now. 2 miles R. 8 stat. of my rescuer. I have not yet told her. But she will know that today, when I tell her all."

"When you tell her all?"

"When I tell her all."

"But you shall not do that." "I will. It will be the beginnnig of

the confession which I shall afterward make to the world."

"By Heaven you shall not do it. Coward! Would you wreck her life?" Jaspar Hume's face was wrathful, and remained so till the other sank back in the chair with his forehead in his bands' but it softened as he saw this

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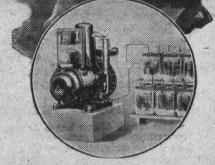
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that Varre Lepage had not clearly was that when he came back strong grasped the whole situation. He said and well, he did not come near her or in quieter, but still firm tones: "No, her husband, and offered no congratu-Lepage, that matter is between us lation. She had not deliberately two, and us alone. She must never wronged him. She did not know he know-the world therefore must nev- wished her to be his wife. She knew er know. You did an unmanly thing: he cared for her; but so did Varre Leyou are suffering a manly remorse, page. A promise had been given to Now let it end here—but I swear it neither when Jaspar Hume went away; shall," he said in fierce tones, as the and after that she grew to love the other shook his head negatively; "I successful, kind-mannered genius who would have let you die at Manitou became her husband. Even in this hap-Mountain if I had thought you would piness of hers, sitting once again at dare to take away your wife's peace- her husband's feet, she thought with your children's respect."

you not see, Lepage? The thing can- ed her husband. not be mended." Just then his hand "He has not succeeded in life," she touched the book that he still carried repeated softly. in his bosom, and as if his mother had bury it all, and so must you. You will said, "He is a great man, my wife." begin the world again-old friendand so shall I. Keep your wife's love added. and respect. Henceforth you will deserve it."

Varre Lepage raised moist eyes to for he said almost sternly, "He is a the other and said "But you will take great man." back the money I got for that!"

There was a pause, then Jaspar Hume replied: "Yes, upon such terms, times, and conditions as I shall hereafter fix. And you have no child, Lepage?" he added gently. "We have no child; it died with my

fame."

Jaspar Hume looked steadily into the eyes of the man who had wronged him: "Remember, Varre, you begin the world again. I am going now. By the memory of old days, good-by;" and he held out his hand. Varre Lepage took it and rose tremblingly to his feet, and said, "You are a good man, Jaspar Hume. Good-by!"

The Sub-factor turned at the door. "If it will please you, tell your wife that I saved you. Someone will tell her; perhaps I would rather-at least it would be more natural, if you did it.". He passed out into the heat of sunshine that streamed into the room and fell across the figure of Varre Lepage, who sat and said dreamily, "And begin the world again."

Before Jaspar Hume mounted, almost immediately after, to join the and pushed his nose against his master's heart. And once again, and for Jacques."

band's arms.

faced woman said: "Who was that takes his arm and with him passes man who rode away to the north as into the street. The Duke is a mem-I came up, Varre? He reminded me ber of this great man's club, and ofof someone, but I can't think who it is."

"That was the leader of the White Guard, the man who saved me, my wife." He paused a moment and then solemnly said, "That man was Jaspar Hume!"

The wife rose to her feet with a spring. "He saved you! He saved you! Jaspar Hume-oh, Varre!" "He saved me, Rose!"

Her eyes were wet: "And he would not stay and let me thank him! Poor fellow: poor Jaspar-Hume! Has he then been up here these ten years?" Her face was flushed, and pain was struggling with the joy she felt in seeing her husband again.

"Yes, he has been up here all that time."

"He has not succeeded in life, Varre!" and her thoughts went back to the days when, blind and ill, Jaspar Hume went away for health's sake, and she remembered how sorry then

remorse and shame. He began to see the felt for him, and how grieved she a tender and glowing kindness of the "I have no children; our baby died." man who had cared for her eleven Jaspar Hume again softened; "Can years ago; and who had but now sav-

Looking down at her, his brow burnwhispered to him, he continued: "I ing with a white heat, Varre Lepage "I am sure he is a good man," she

> Perhaps Varre Lepage had borrowed some strength from Jaspar Hume,

> His wife looked up half-startled at the tone and said, "Yes, dear; he is a good man-and a great man."

The sunlight still came in through the open door. The Saskatchewan flowed swiftly between its verdant banks, an eagle went floating away to the west, robins made vocal a solitary tree a few yards away, troopers moved back and forward across the square and a hen and her chickens came fluttering to the threshold. The wife looked at the yellow brood drawing close to their mother, and her eyes grew wistful. She thought of their one baby asleep in an English grave. But thinking of the words of the captain of the White Guard, Varre Lepage said, "We will begin the world again, my wife." She smiled, and rose to kiss his forehead as the hens and chickens hastened away from the door, and a clear bugle call sounded in the square. "Yes, dear," she said, "we will begin the world again."

#### CHAPTER XI.

LEVEN years have gone since His that scene was enacted at Edmonton, and the scene rises for the White Guard now ready for the jour- last act of that drama of life which is ney back, Jacques sprang upon him connected with the brief history of the White Guard.

A great gathering is dispersing from the last time that we shall hear it, a hall in Piccadilly. It has been drawn Jaspar Hume said, "It's all right, my together to do honor to a man who has achieved a triumph in engineering And then they started for the north science. As he steps from the platagain. As they were doing so, a shad- form to go he is greeted by a fusilade ow fell across the sunlight that stream- of cheers. He bows calmly and kind<sup>2</sup> ed upon Varre Lepage. He looked up. ly. He is a man of vigorous yet re-There was a startled cry of joy, an served aspect; he has a rare individu-answering exclamation of love, and ality. He receives with a quiet cor-Rose Lepage was locked in her hus- diality the personal congratuations of his friends. He remains for some time A few moments after and the sweet- in conversation with a royal Duke who



fers him a seat in his brougham. Amic the cheers of the people they drive away together. Inside the club there are fresh congratulations, and it is proposed to arrange an impromptu dinner, at which the Duke will preside. But with modesty and honest thanks the great man declines. He pleads an engagement. He had pleaded an engagement the day before to a well-known society. After his health is proposed he makes his adieus, and leaving the club, walks away toward a West-end square. In one of its streets he pauses and enters a building called "Providence Chambers." His servant hands him a cablegram. He passes to his library, and standing before the fire, opens it. It said. 'My wife and I send congratulations, to the great man."

Jaspar Hume stands for a moment looking at the fire, and then says simply, "I wish my poor old Jacques was here."- He then sits down and writes this letter:

"My Dear Friends :-- Your cablegram has made me glad. The day is over. My last idea was more successful than I even dared to hope, and the world has been kind. I went down to see your boy, Jaspar, at Clifton last week. It was the thirteenth, his birthday, you know, ten years old, and a clever, strong-minded little fellow. He is quite contented. As he is my god-child I again claimed the right of putting a thousand dollars to his credit in the bank-I have to speak of dollars to you people living in Canadawhich I have done on his every birthday. When he is twenty-one he will have twenty-one thousand dollarsquite enough for a start in life. We get along well together, and I think he will develop a fine faculty for science. In the summer, as I said, I will bring him over to you. There is nothing more to say tonight except that I am as always, "Your faithful friend,

JASPAR HUME."

A moment after the letter was finished the servant entered and announced, "Mr. Late Carscallen." With a smile and hearty greeting the great man and this member of the White Guard meet. It was to entertain his old Arctic comrade that Jaspar Hume had declined to be entertained by society or club. A little while after, seated at the table, the ex-Sub-factor said: "You found your brother well, Carscallen?" The jaws moved slowly as of old. "Ay, that, and a grand minister,

Captain." "He wanted you to stay in Scotland, I suppose?"

"Ay, that, but there's no place for me like Fort Providence."

"Try this pheasant. And you are Sub-factor now, Carscallen!"

"There's two of us Sub-factors-Jeff Hyde and myself. Mr. Field is old and can't do much work, and trade is heavy now."

"Yes; I hear from the Factor now and then. And Gaspe Toujours?'

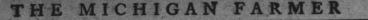
"He went away three years ago, but he said he'd come back. He never did though, Jeff Hyde believes he will. He says to me a hundred times: "Carscallen, he made the sign of the cross that he'd come back from Saint Gabrielle: and that's next to the Book with a Papist. If he's alive he'll come."

"Perhaps he will, Carscallen. And Cloud-in-the-Sky?"

"He's still there, and comes in and smokes with Jeff Hyde and me, as he used to do with you sir; but he doesn't obey orders as he did those of the Captain of the White Guard. He said to me when I left, 'You see Strong-back, tell him Cloud-in-the-Sky good Indian ---he never forget. How!""

Jaspar Hume raised his glass with smiling and thoughtful eyes: "To Cloud-in-the-Sky and all who never forget!" he said.

THE END.





That is the production capacity of Firestone Plant No. 2, devoted solely to this size—the size used by more than half the car owners of America

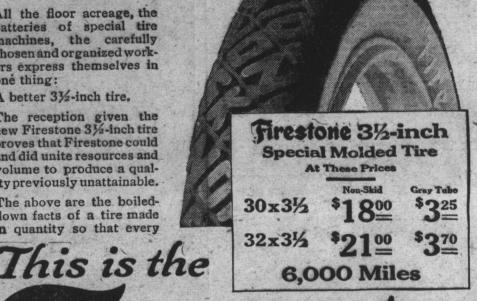
The true value of the Firestone No. 2 Factory, lies in the kind of 3½-in. tires it turns out.

All the floor acreage, the batteries of special tire machines, the carefully chosen and organized workers express themselves in one thing:

A better 3½-inch tire.

The reception given the new Firestone 3½-inch tire proves that Firestone could and did unite resources and volume to produce a quality previously unattainable.

The above are the boileddown facts of a tire made in quantity so that every



estone.

one of its mile-giving qualities can be offered at the prices mentioned.

19 - 243

Look at the cross section of this tire at your Firestone dealer's.

From bead to tread, you find sound, enduring construction.

You can see the extra rubber between fabric layers.

You can feel the resilience in the tread. And you sense toughness there, too, in the spring and vigor of the live rubber.

Cushion, breaker-strip and sidewall are generous in size and in the quality of rubber.

Equip your car with these new 3<sup>1</sup>/<sub>2</sub>-in. tires, the latest example of most miles per dollar.



left for immediate delivery.

McClure Company, Saginaw, Mich. Saginaw Silos and Whirlwind Silo Fillers



### men handle is especially attractive to farmers.

The Michigan Farmer





### **Make This Test**

to the farm of any owner using odel"D" BATES STEEL MULE, k him to run BATES STEEL ULEover freshly plowed ground, e if you can find any packing of li. Scoop up the ground imme-ately behind crawlers. Notice at there is no soil packing—the ed bed under crawlers is exactly loose as rest of the field. Also tice how fast and how easily he uble discs and drags the ground one operation.

### **Crop Yield Increased**

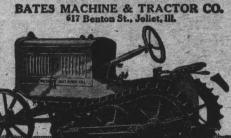
Next visit some farm on which other type tractors are used. Note how much smaller the crop planted in the wheel tracks than that plant-ed between the wheel tracks. Note how soil packing of heavy tractor wheels has held back the growth-forced moisture from the soil-packed the ground so solidly that life giving air scarcely reaches the seeds.

seeds. Compare this with the full, even growth all over the farm using BATES STEEL MULE. Think of the value of this increased yield with present food prices. The is meaning one of many research who That is merely one of many reasons why 80% of all BATES STEEL MULES built are sold to farmers who formerly owned wheel type tractors.

tractors. And a continuous saving in feeding and upkeep of horses. You can plant money-making crops on the five acres required to feed each horse.

A Dependable Tractor The Model "D" BATES STEEL MULE for its weigh more shull and greater speed under more different condit any other three-plow tractor built. It keeps in running or than other tractors because of its big oversize working

Geo. A. Eaton, 224 S. Capital Ave., Lansing, Mich.



# Bates Steel Mule

### Leader-Trahern **Dealer's Knowl**edge Helps You If you plan to have a water system installed in your home orfarm, you should not deal with a concern which is too far away from your locality to know what your special water needs are. "Everybody Knows ider-frahern

Leader-Trahern dealers are the most reliable guides you can find, in regard to water systems, in their communities. Leader-Trahern Tanks, Pumps, Power Equipment and complete water system units, for deep or shallow wells, electric motor or gas engine drives — any capacity, are the most complete line in America. We have exactly what you want, to fit your local requirements.

Water Systems'

Write to us for the address of the dealer nearest you.

Kerr Machinery Corporation, Detroit, Mich.

### Getting Ideas First-Hand

ment; Ezra Levin, muck crops demon- in the same twenty-acre field. stration, took an important part and hundreds of the farmers in attendance county agent, P. C.-Jamieson, caught

Soil experiments on the farms of E. east of White Pigeon. There is a large D. Fairchild and H. C. Sturgis. One and fine resort called Oakwood. After was a sandy loam and the other prai- dinner Mr. Wendt called to order and rie. The septic tanks were found on George Grantham, Ezra Levin, Miss

(Continued from page 231). sive experiments were being conduct-the county farm bureau and M. A. C. ed on the Stevenson Brothers' farm George Grantham, of the soils depart- in three different varieties in alfalfa

At noon the writer and the Calhoun followed them about to learn all they up with the procession, after driving could. over fifty miles. It was a picnic din-The farms visited were as follows: ner on the shore of Klinger's lake,



Mr. Wendt Tells Farmers the Result of Oat Experiment.

farms. Construction was in progress mazoo county, gave short talks. on the first farm. At the Curtiss farm is a splendidly equipped home. The in the act of intently holding the atkitchen is well supplied with all sorts tention of the audience. No one went of labor-saving devices, running water, to sleep when he was on deck, even a well-equipped bathroom, etc. The though it was just after dinner and septic tank was complete and in op- quite warm, even in the shade. eration.

herd of pure-bred Holstein cattle and tivated rows. In another Mr. Wendt is Poland China and Berkshire swine. At explaining the various plats of oats in the Mark Harrison farm there were the trial tests. A bird's-eye view of over seven hundred Brown Leghorn the farm shows several hundred acres hens scratching around, performing of muck well drained and in cultivatheir toilet and actively engaged in tion to various crops. R. E. Zimmertheir natural vocation in life. Exten- man is superintendent of this farm.

the Fred Pashby and Charles Curtiss Jones, also Jason Woodman, of Kala-

One picture shows Mr. Levin caught

The writer took several pictures on On the Albert G. Wade farm, one the Woodward Brothers' farm. One mile west of White Pigeon, is a fine shows the peppermint in cleanly cul-



A Fine Stand of Peppermint on Woodward Brothers' Farm.

### Selecting Male Birds

because of their influence on every saw a cockerel purchased by a farmer egg, it pays to select them with care. last year because he was said to be Farmers who have large flocks of poul- bred from bred-to-lay stock. His pedicrease egg production can obtain fine when the bird arrived he had all the cockerels in the following manner: marks showing a lack of vitality and Purchase one vigorous year-old hen such a bird should never be used to with a record of two hundred eggs per mate with a farm flock in spite of the year or better. Mate her with a cock- pedigree. erel from a high-producing hen. The In breeding fancy poultry it is neecockerels that result from that mating essary to select according to the de-should be valuable to mate with the mands of the Standard of Perfection farm flock and increase the egg-laying in order to win prizes in strong comability of the pullets that result from petition. Even then a bird with fine the flock mating. Of course, there will markings should not be used if it is be more eggs for hatching if a larger lacking in vigor. It will usually be start is made but it is better to have better to use a bird that is stronger in

AS the male birds are of greatest Vigor should be emphasized in se-importance in poultry breeding lecting the male birds for breeding. I ree was undoubtedly all right but

two birds of guaranteed quality for vitality even though slightly inferior foundation stock than many birds of in fancy points. I believe that the ap-unknown value. parent vigor of the bird should be a

21-241

strong factor in placing awards in the er call up the grocer and say "A pound show room because it is so important of eggs, please." Probably it depends agement.

ed by the skill in culling the broiler pound. and roaster stock. Keep the well-marked cockerels that feather early, grow rapidly, show vigor and are well marked for the breed. Market as broilers the slow-feathering birds that are off color and show any appearance of being slightly lacking in physical stamina. Never feel mean toward the cockerels that fight the other membors of the flock and drive them "When I sing the tears come is around. They are apt to be the best my eyes. What can I do for this?" and most vigorous and they display their "pep" and breeding value by their pugnacious disposition.

Mark the cockerels that show quality with leg bands and keep the best of them for sale as breeders or for the has sent us a weather barometer!" home flock. If they are not marked some of them may be sold as brollers. dear boy to be so thoughtful! Which

### POUND OF EGGS, PLEASE!

A<sup>T</sup> intervals the question of selling eggs by weight is brought up and discussed and then dropped for future consideration. In the future will the farmer sell eggs by the pound and buyers forget the word dozen as the measure of eggs? There are arguments for both sides of the question.

selling eggs is by the pound. One farmer culls his flock and only incubates eggs from the hens that lay a large-sized egg. Eventually the eggs produced on that farm are larger than the ordinary market run of farm eggs. Some doughnuts then she did prepare On another farm no effort is made to hatch the best quality of eggs and many small eggs are produced by the laying stock. On the average market the eggs from both farms are sold by the dozen and if the eggs are fresh and equal in other respects, they bring. the same returns regardless of the weight.

Possibly when eggs are sold by the pound the restaurant and hotel keep- "and the time to do it is when he first ers in some districts will wish to buy small eggs and thus get more eggs for their money. When two eggs are fried it will be difficult for a customer to estimate whether they came from a pair of large or medium-sized shells. Even bantam eggs might be preferred ed a forceful sermon on salvation, and by some buyers because of the large the great necessity of adjusting themnumber of eggs they would receive for selves to the requirements of salvaone pound. However, the large eggs tion was pointed out to the congregawould still contain more real value tion. He had proclaimed salvation to for the money and there would be less be free-free as water. shell in proportion to the edible portions.

erage weight of market eggs has plac- the rear of the church thought that he ed the weight at 1.88 ounces. Then a would call the parson to book on his dozen eggs would weigh 22.5 ounces statement as to salvation being free. or 1.4 pounds. At present the sale of He said: "Parson, in yo' sermon yo' eggs by the dozen is simplified because jes giv', yo' say dat salvation am free, they can be counted out and placed in an' now yo' is orderin' de deacons to crates more easily than they can be pass de hat. I doant understan' what weighed.

Changes in marketing methods fer money." come slowly and it is difficult to The parso change any plan that is giving a fair look, although smiling, as he again measure of satisfaction. In some took the pulpit to explain, which he stores bananas have recently been sold did as follows: by the pound. However, a buyer has been used to buying them by the doz- question at dis time. Ise glad to make en because he likes to know how many de splanation, an' he will understan' he is going to get. If eggs were grad- how it am. Yo' see, brudder, yo' go ed and sold by the dozen according to down to de river an' de water am flowsize and quality, such a method would in' freely, an' dere am a great plenty correspond with selling bananas at a fer all. Yo' kin drink an' drink all yo' price from twenty to forty cents per wants, an' fill yo' buckets an' take dozen, depending on their size and dem to de house, an' it costs yo' nufquality. The trouble with the egg bus- fin'. It am free jes as I say, but when iness has been too little grading. This yo' has dis water piped into yo' house has resulted in the local grocer charg- fer de bafftub an' to wash de dishes, ing one price for eggs regardless of de pipin' has to be paid fer. Dis colthe size or quality, even though he lecshun am to pay fer de pipin'. . had a varying schedule for his other De brudder deacons will perceed wid products based on their self-evident passin' de hat an' takin de collecshun, value. In the future will the city buy- which I knows am gwine to be librel."

in actual breeding operations and it upon the attitude of the producers of cannot be neglected in poultry breed- eggs. As long as they are satisfied ing without serious losses and discour- to sell eggs of all sizes by the dozen, the dealers will buy according to that The quality of the flock of cockerels method and eggs will continue to besaved for breeding is greatly influenc- sold by the dozen and not by the

### "By the Way" EFFICACIOUS REMEDY.

"When I sing the tears come into. "Stuff cotton in your ears."

### A METEOROLOGICAL BOON.

Mr. Hoskins-"Look, my dear, Bertie Mrs. Hoskins-"How good of the way do we screw it when we want the weather to be fine?"

#### PROUD.

Said Newlywed, "I say, dear one! Your poundcake weighs almost a ton. It's just like lead, and mighty tough, You surely didn't pound enough. —Luke McLuke.

re of eggs? There are arguments for oth sides of the question. It seems as if the fairest method of elling eggs is by the pound. One

And stack of pancakes then with pride She brought to him and one he tried, Then whispered, "Tell me truly, Nan, Is this the pancake or the pan?" —Detroit Free Press.

And served them with a haughty air. He took a bite and cried "my-luck!" Why did you leave them in the shuck?"

### A SUMMER HINT.

"Sometimes you have to hit a man to make him keep quiet, so that you can save him from drowning."

"Yes," replied the abrupt person; begins to rock the boat."

#### PAYING THE PIPER.

The colored parson had just conclud-

At the conclusion of the sermon he requested the deacons to take up a One experiment to determine the av- collection. An important brother in yo' means by sayin' it's free, an' axin'

The parson gave the brother a fierce

"Ise glad de brudder has axed dat



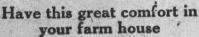
No other heating method can show as high values in these four vital requirements of a good substantial heating plant.

Ask your dealer today to give you an estimate for equipping your farm house with this great modern comfort. Burns any fuel, does not need cellar, and water pressure is not required. Every farm home should have one of these modern IDEAL Heating Outfits to make the family more contented and to keep the young men on the farm who return from demc: lized armies.

#### Thousands of farm homes will enjoy the winter in comfort with IDEAL HEATING RADIATORS BOILERS

An IDEAL Boiler and AMERICAN Radiators can be easily and quickly installed in your farm house without disturbing your present

heating arrangements. You will then have a heat-ing outfit that will last longer than the house will stand and givedaily, economical, and cleanly service.



**PIDEAL** 

IDEAL Boilers will supply ample heat on one charg-ing of coal for 8 to 24 hours, depend-ing on severity of, weather: Every ounce of fuel is made to yield ut-most results.

You will say that IDEAL heating is the that you can put on your farm, for it gives you the needed comfort and enjoyment during the long season of zero, chilly, and damp weather. It is not absolutely perserve to

It is not absolutely necessary to have a cellar or running water in order to operate an IDEAL heating outfit. There is no need to burn high-priced fuel because IDEAL Boilers burn any local fuel with great economy and development of heat.

Sendforour Free Heating Book We want you to have a copy of "Ideal Heating." It goes into the subject very completely and tells you things you ought to know about heating your home. Puts you under no obligation to buy.



IDEAL-Arcola Radia-tor-Boilers for small houses without cellars. Hot-water heating as simple and easy asrun-ning a stove-one fire Feats all rooms. Write for separate booklet "IDEAL-Arcola."

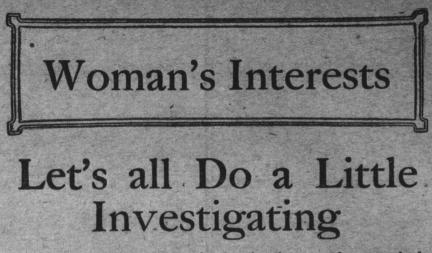
AMERICAN RADIATOR COMPANY Department F 3 Chicago Company Department F 3 Company Department F 3	most results.	
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HEATINC SAD IRON         Image: Property of the second condition of the second conditis the second condition of the second cond condition the		
Worms Single Trospital School of Factors and practice of inverse. The facilities afforded by this modern uily equipped insituation. Is offered to qualified on the curriculum has been carefully planned, including especially the education and culture interview of the auriculum has been carefully planned, including especially the education has been carefully planned, other including especially the education has been carefully planned, other including especially the education has been carefully planned, other including especially the education of the state. The Jeanniage Parme, 2000       No. 5.         Wichigan A. C. Inspected RED ROOK Wheat. Inspected by M. A. C. Price, lobu tots, \$3 per the education of the state. The Jeanniage Parme, 8 haller, Mich. St. D. 1.       No. 6.         Wichigan Farmer       No. 6.         Wichigan Farmer       No. 6.         Wichigan Farmer, 100       No. 6.         Wichigan Farmer, 101       No. 6.         Wichigan Farmer, 102       No. 8.         Michigan Farmer, 102       No. 8.         Michigan Farmer, 102       No. 8.         Michigan Farmer, 103       No. 8.         Michigan Farmer, 103       No. 8. <tr< td=""><td>CAMPING OR TOTORING UP ECONOMY COMPORT AND ECONOMY INTEREST YOU WRITE US. AGENTS WANTED IDEAL SAD IRON MFG. CO.</td><td>No. 4. Michigan Farmer</td></tr<>	CAMPING OR TOTORING UP ECONOMY COMPORT AND ECONOMY INTEREST YOU WRITE US. AGENTS WANTED IDEAL SAD IRON MFG. CO.	No. 4. Michigan Farmer
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CULL BEANS FOR FEED Car lots or lose. Ask for prices. NOUNG RANDOLPH SEED CO., OWOSS, MICH.       OUR PRICE ONLY \$1.50         Flemsh Giant Rabbits, dark steel black. Grays 2 DAVID RAY, 709 Norris St. Ypsilanti, Mich.       No. 8.         Trained American for Hounds Rabbit and Skunt W. E. LECKY, Holmesville, Ohio.       Michigan Farmer, 1 yr., wk	Witchigan A. C. Grown from certified seed, Pure and free from smut, perfectly clean and free from weeds. Inspected by M. A. C. Price, 10 bu. lots, 53 per bus ancist free. Best crop of whest ever grown in our bection of the state. The Jennings Farms, Bailey, Mich R. F. D. No. 1. FOR SALE by "Fertilaud Farms." Five hun- dred fifty bushels of Red Rock Wheat inspected by Michigan Crop Improvement As- colation. Registration No. 9012 M. O. T. A. prices. Qual- ity good. Class I. Samples furnished prospective buyers. W. T. Bandeen, Mt. Pleasant, Mich.	No. 6. Michigan Farmer
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NVESTIGATIONS are the fashion just now. Every paper you take

up tells of some official, suddenly filled with zeal, who is starting an investigation to find out who is to blame chaotic condition which exists in the idea that the men and women who for- ust, 1919? Has the baptism of blood for the present high cost of living, world today? Of course, it is popular sook the God of their fathers for the which the world received gone far to-Congressman Murdock has asked for to blame it on the Kaiser, he started teachings of heathen philosophers will wards cleansing us? Looking around a half million dollars to lower prices the war. But I've an idea that he not be held free from responsibility I can't see that we are so changed, as (and raise taxes), and a general hue couldn't have done it without a great when the real day of reckoning comes. and cry, reminding one somewhat of deal of help from the world at large. We were drunk with the idea of our four years that we were to be. The an early English description of a fox We laid the mine, he simply applied own importance and our right to take old selfishness seems just as strong tohunt, is under way. Meantime the rise the match that started it off. in prices goes merrily on, the cost to began.

are we personally responsible for the ed you pages from Nietzsche. I've an was all right. We had forgotten the



the consumer of several articles hav- was pretty popular everywhere before the survival of the fittest. As interpre- of anyone but themselves, though ocing been raised since investigations the war, as I recall it. Our reading ted by the many it meant that the one casionally individuals seem to have was saturated with it, man's ability to who was strong enough to climb over gotten the vision of what we should do. But investigations being the rule I take care of himself without help from his fellows was the one best fitted to have been wondering if it would not a Supreme Being. The teaching's of live. It excused all manner of selfish- idly for its rights, the farmers for be a good thing for each of us to do German philosophers were studied by ness, rapacity, and crime. In business their rights, the capitalists for their a little individual investigation. Not a great many far more religiously and private life the person who could rights, the clerks for their rights and of our neighbors, but good, old-fashion- than was the Bible, and women whose not take care of himself went under, the employers for their rights, and ed self-examination. To what degree mothers followed St. Paul, glibly quot- and many of us were declaring that it never a one giving a thought to the

what we wanted regardless of the oth- day as it did before. I can not see The German idea of the superman er fellow. There was the doctrine of where people in masses are thinking



injunction, "We then that are strong ought to bear the infirmities of the weak, and not to please ourselves."

Are we so much better now in Augwe were told through all those weary The laboring class is lining up sol-(Continued on next page).

# Canning Left-Over Vegetables

the small quantities left from packing der fifteen pounds pressure. the different vegetables are placed in one can, many desirable combinations can be made. A good combina- bination is made by using one part of the mixture in hot glass jars. Add a Scald tomatoes from thirty to sixty tion during the early summer is young corn, one part of green string beans level teaspoon of sugar and one-half seconds and dip in cold water. Recarrots, peas, string beans and young and three parts of tomatoes. The corn teaspoon of salt, and fill jar with het move the skin and core. Chop toma-onions. A mixture which the fall gar- is blanched, dipped in cold water and water. Put on boiled top and rubber toes into medium-sized pieces. Mix den might furnish is peppers, celery, cut from the cob. The string beans and process in water-bath canner eith- thoroughly two parts of tomatoes with onions and small lima beans. Do not use beets in such combinations, because they will discolor the mixture.

Corn seems to give the average home canner more trouble than any other product. It is especially important, therefore, that extreme care be used and that directions be carefully followed. Much depends upon the age and condition of the corn. Select the fresh, tender, juicy corn which has not reached the starchy stage. A little experience in selecting the ear and the ability to recognize corn that is just between the milky and dough stage are important.

Gather lima beans for canning when the beans are in prime condition for the table. The sooner the beans are canned after picking, the better the product. Blanch for three to eight minutes in live steam or boiling water. Very large lima beans are often canned with corn for succotash, where corn and beans mature at the same time.

Select small, tender wax or green beans for canning purposes. Beans which have grown within the pod to any size are difficult to can and the resulting product is not as satisfactory as one from younger beans. The sooner the beans are in the jar after picking, the better the flavor, and the more certain they are to keep. Wash, string and cut off the ends of the beans. They may be canned whole or cut in short lengths. Those cut diagonally are attractive in appearance.

All the vegetables are prepared separately as for canning and packed in layers in a well-boiled jar. Each layer should be packed as tightly as possible before the next is added. Fill jars with a brine. Put on boiled top and

and economical in salads, ome- either 120 minutes one day or one hour blanched for four minutes. The toma- three successive days. lets, escalloped dishes and to on three successive days, or thirty-five toes are blanched from thirty to sixty use as garnishes for meat dishes. If minutes in steam-pressure cooker un- seconds and cold-dipped. Remove the

A corn, tomato and string bean com- three vegetables thoroughly and pack in cold water and cut from the cob.



There is no Law Against this Sort of Hoarding.

IXED vegetables are attractive rubber. Process in water-bath canner are cut into convenient lengths and er 120 minutes one day or one hour on

Corn and Tomatoes. Corn and tomatoes make a good com-hot glass jars, add a level teaspoon of sugar and one-half teaspoon of salt to a quart. Fill jars with hot water. Put on boiled top and rubber and process (boil) 120 minutes in water-bath canner one day, or one hour on each of three successive days.

Concentrated Vegetable Soup. An excellent concentrated vegetable soup can be made from any desired mixture of vegetables. A tasteful combination consists of one quart of concentrated tomato pulp (tomatoes boil-ed down until thick), one pint of corn, or tiny lima beans, one pint okra, and four teaspoons of sugar and salt mixture-made by mixing sugar and salt in the proportion of one-third salt to two-thirds sugar.

To make the tomato pulp, cook to-gether three quarts of sliced tomatoes, one small chopped onion and half a cup of chopped sweet red pepper. Put through a sieve and remove seeds and skin. Return strained pulp to kettle and cook down to about the consistency of catsup. Measure, add the corn or beans and okra which has been prepared as for canning, with seasoning. Cook altogether for ten minutes and pack hot into jars which have been previously boiled fifteen minutes. Put on boiled top and cleansed rubber, partially seal and place on false bottom in water-bath canner with water to cover.

If the single-period continuous method of processing is followed, boil for at least two hours. If the intermittent boiling process is used, boil for one hour on each of three successive days. Before each subsequent boiling, the covers must be loosened and after each boiling the covers must be securely tightened again to make sealing

### The New Bead Work

with a fringe making an extra inch, end to the designs you may utilize. tional design-were woven in with weave them yourself is comparatively dark green, light blue and yellow small. beads. We exclaimed at the ingenuity of the simple savage, and put the fob LET'S ALL DO A LITTLE INVESTIaway for a curio.

The other day we walked down the street and suddenly rubbed our eyes. young chap was wearing? Close in- see the other side of the case. "I've sign in his was the symbol of the An- thinking about me?" is the general cient Order of Hibernians. Inquiries cry. The laborer demands a raise be-Indian bead work has now become civ- gives it because he has to, then raises ilized and been impressed into the the price of his commodity. The farmmaking of belts, necklaces and all er goes to buy machinery or fertilizer sorts of trinkets.

All that is required is a small loom on five to the consumer, and another like the one in the picture, time, pa-



tience, a few beads, skilful fingers and a sense of the artistic. If you are clevyou are fortunate, for then you can . have "something different." If you are loom for ten cents, the loom is eightyfive cents. Here you will find suggestions for all sorts of color combinations and numerous designs to be worked out.

For your warp thread in weaving their prices. you can use either linen or cotton. If cotton is used choose No. 40 and wax it. Thread the loom, using one more thread than the necklace or fob or belt is to be beads wide. The warp threads should be cut twelve inches longer than the article to be made. In weaving you fasten the weaving thread which should be No. 70, to the extreme left warp thread. Pass the needle under the warp threads to the right, slip on as many beads as you are to use once across, press the beads up between the warp threads and again run the needle through them. This brings the thread back to the left side again, where you simply repeat the process. Be sure that in putting the needle through the beads the second time it seeds from the first and best flowers, the loom is woven full the completed year. A mistake is made when the portion may be wound on the spool, first and best are cut and the inferior which pulls the warp threads up into position for further weaving.

Belts of this bead work are unusually pretty. A white background with will improve year by year. Let the lavender design in a Greek key, swas- seeds get ripe and thoroughly dry in tika, bow knot or star would be effec- the pods. In winter when you have tive for wear with summer frocks. For plenty of time, clean the seeds and an older person choose black for the get them ready for spring planting .background and silver or gold for the Mrs. J. J. O'C. design.

blouse.

work in your Maltese Cross. Or the off the machine and you will find it Christian Endeavor or B. Y. P. U. emb- works like new .- M. B. G.

S OME years age a returned western lem may be used if either of these traveler wore back a watch fob societies claim you. Of course, your bought at an Indian reservation, the Masonic order emblem may be used, Mojaves it was. This was woven of or perhaps the emblem of your high beads, a fob about four inches long school or college society. There is no and an inch and a half wide. The These necklaces and belts cost a ground work was of white beads and pretty penny if someone else makes the designs-a butterfly and a conven- them for you. But the cost if you

### GATING.

(Continued from preceding page). Was that our watch fob the dapper other fellow, or making an effort to spection showed it was not. The de- got to look out for myself. Who is in a store disclosed the fact that the cause living is so high. The employer and finds it higher, his prices raise a It seems it is very simply done, too. cent to the buyer, who promptly tacks wage raise is demanded. And so it goes round and round in a merry circle. Vicious is the better adjective, but we might as well try to see the funny side of it. Many of the advances have not even this excuse. The price is simply raised because "everybody is doing it, and I might as well get my share while the getting is good." It is like the real estate men baldly claim, "A piece of property is worth just whatever you can get some sucker to pay."

I think perhaps the meanest excuse I have yet heard for the unwarranted er enough to make your own designs robbery is that if money is plentiful enough for folks to go to shows and movies they might as well pay high not, a leaflet may be bought with the prices for food and clothes. Why, forsooth, because a person spends ten cents or a dollar for pleasure, must he be asked double the price for a quart of milk or pound of meat? Yet I have heard this "logical" argument advanced by dealers who were defending

> The fact of the matter is that we are all out after ours. And no amount of congressional investigation or agitation by prosecutors can entirely remedy the evil. "Out of the heart are the issues of life." And until our hearts get right, things will go on pretty much as they are. Laws may be made, but there is always a way to evade a law, and a lawyer who can be bought to show you how. DEBORAH.

#### FROM ONE HOUSEKEEPER TO ANOTHER

Select the Finest Flowers for Seed. -If care is taken in selecting the goes above every warp thread. When the plants improve each succeeding left for seeds. Poppies, phlox and verbenas should be selected in this way. Watch your flowers carefully, and they

Cleaning the Sewing Machine.-Few One sees necklaces finished at the things cause the woman on the farm ends with tassels made of loops of the more annoyance than a machine that beads. About fifty beads will be re- has become clogged up and will not quired for each loop. A handsome run. When this happens no amount of necklace was made of black beads, oiling will have any effect. If you have with the pattern worked out in cut access to a bicycle pump and use it on, steel beads, which also formed the tas- different parts of the machine it will sels. This would make a very accept- force out all particles of thread and able gift for an older woman for wear dust. After you have used the pump with a dark gown or with a white fill your oil can with gasoline, flood every oiling place on the machine and If you belong to the Epworth League, run rapidly for a few minutes. Then



### The Fashion Center of Detroit

Visitors to the State Fair are very cordially invited to make our Store their shopping headquarters during their visit to this city.

Attractive exhibits of the choicest foreign and domestic merchandise will be found in every department on every floor.

Newcomh Endicott Company

Woodward and East Grand River

# Our Boys' and Girls' Department The Farm Boy and His Tools

By E. L. Vincent

MAN I know of a few days ago came clear across the state to do a piece of carpenter work. For some time he had been in the grocery business, and I wondered if he had kept the tools he used to have, and asked him about it. "Oh, yes," he said, "I've got my tools. I have kept those ever since I laid down the carpenter work."

That man was a farmer boy when he was young and began then to gather together the tools he loved so well. His father had very few tools, but he was pleased when his boy with his allowance and earnings, which were small in those days, bought tools one after another, until he had a very good kit. To this collection he added once in a while some tool; and while he was working in the store his mind kept going back to the work he so much more loved, and when the call came to build a house for a friend, he was ready to drop all and go back to the old home. And I know when the house is done it will be well done, for the farmer boy, now a man, long ago learned to use his tools right.

There is no finer thing than for every farmer boy to invest some of his spare money in good tools. I say good tools, because they are many which are not worth taking home. I have bought cheap screw drivers, for example, myself, and had the tip turn under pressure the very first time I used them. It is the same way with many other tools. They do not stand use. So it is far better to buy good ones while we are about it. It is money saved.

I wonder how many boys who read this have really mastered the art of keeping tools in good condition? It is easy enough to dull them-a nail or a stone and the trouble is done. But it is a different thing to undo the damage. Here is where the farmer boy may exercise all his skill to good admilking machine, so that when we are exhibit on the platform and in front of was talking and everybody listening. and treat them accordingly. milking, somebody may be grinding up the blackboard. any tools that need it. To do good work one ought to have a good light, tion and gave a talk to club members left corner and stuck its head out. so that he can see how he is coming on scoring corn and potatoes. Even on. If there is a big nick in a chisel, we will say, the boy may sharpen the tool up good in a little while. The steel ought to be held on the stone so that the bevel of the edge will be just as it was in the beginning. There may be some temptation to shorten the bevel up, so as to grind the nick out faster, but if we do that, we injure the working qualities of the tool. This is just as true of axes and other edged tools as of the chisel.

One of the most difficult pieces of work of this kind is filing a saw. A good way to begin is to take an old saw that may have seen its best days and hung round, doing nobody any good. For a small price you can get a good saw set. It may be you will need to have a little instruction as to the right way to use it, but after a bit of practice you can use it right. Then comes the filing. If you have no vise made for the purpose, you can take two thin pieces of board, put the blade of the saw between them with the toeth just above one edge, and fasten the girls evinced great interest in this but maintained a quiet and cool apsaw and boards in the large vise of the work. work bench and you are ready to begin.



### A Junior Agricultural Club

By J. H. Brown

O NE of the Junior Agricultural continue to roost on the present high Clubs of Calhoun county, during prices. the war got into the game with considvantage. On our farm we have a erable grit and enthusiasm. The pic- well back in the schoolroom during instruments to put in order. grindstone geared to the shaft of the ture shows up the bunch and their the afternoon exercises. The teacher

We were asked to attend the exhibi- slat on top of the coop in the lower

Suddenly one chicken pried off one

This little boy got excited inside,



quality and the two little girls had be- ly and carefully down the aisle, past and trying to right the wrongs that The file used ought to be small, and come quite expert in a short time. The the heating stove, and grabbed that had been done. the smaller the saw and the finer the two little boys, if they keep on will no chicken just as it had got both feet teeth, the smaller should be the file. doubt become poultry experts and braced against the top slat for a final knight to win over another at a four-You will notice that each tooth has two make lots of money, provided chickens push.

general use of tools. If possible have a bench upstairs in some building. The wagon house may be the most convenient place. Over the bench put up a board shelf, with small holes in it, and into these holes set the lower end of the bits, gimlets and other tools for boring. Hooks fastened to a board on the side of the wall will hold the saws. drawshave and so on. Another shelf will take the planes where they will be handy.

Rust is one of the worst enemies of tools of any kind. So always put the tools you have used away with the metal perfectly dry. A piece of oiled cloth, kept handy by, and thoroughly applied, will absorb any moisture that there may be on the metal.

Never leave the tools out round the farm. It is a common failing with many to drop tools where they are used, forget them and never see them again, unless it be by chance. On every farm tools enough are lost and spoiled each year to keep the place well supplied with all needed tools.

Storms falling upon tools will soon ruin them. A rusty tool cannot be made to do as good work as it did when new. Even a dew will take the shine off the best steel. One night of lying on the earth will damage the

Save pieces of hickory and ash and Care needs to be taken while filing the it off. Or a piece of fine sandpaper other hard wood and lay them away bevel of one tooth not to let the file will do it more quickly. for handles to the tools which may get come over on the bevel of the next Now, here are a few hints about the broken. Take the spare moments for replacing these handles. Father will appreciate it if you fix up any of his tools that may have been broken.

When at your jobs of grinding, think of mother's knives and give them a good edge. The best way to sharpen scissors is with a fine file. But wait till you have had some experience be-The boy at the left sat in his seat fore doing this. Scissors are delicate

Think of your tools as your friends

### **Our** Prize Contest FIRST PRIZE.

Kind of Stories I Like Best. I have been reading the letters written by the boys and girls on the different subjects, and think they are very interesting. So I thought I would write one, too.

I like to read stories that are interesting and in which we may learn something; as in some fables that are written about animals. They teach us net to be boastful and always wishing that we were richer than others.

Then I think that stories which were written a long while ago about the people that lived then are very interesting.

They show us how the people lived and did their work. How different the children were brought up in those days from what they are now. And what strange things some of them believed in. They surely had a hard time getting along. We ought to appreciate what they did for us.

I like to read stories of adventure, pearance for a spell. Then he drop- too. About the knights. How brave The needlework display was fine in ped down on the floor and crept quick- they were, always helping the poor

My, it must have been great for one nament, and have the wreath put on his head as the champion, like "Ivan and a woman that were rich, and had hoe" did.

ture. It is lots of fun to learn all off and had a castle made for himself about the different plants and flowers. and wife, and they lived in the castle Then I guess there is one more kind to the end of their lives. -Laura May that we all enjoy, and that is fairy Bartshe, Vicksburg, Mich. Age fourstories.-Ilah Bechtel, Middleville, teen years. Mich. Aged thirteen years.

HONORABLE MENTION.

The Kind of Stories | Like Best. tell of their homes, their ways of hunting, fishing and trapping. The true Indian has an intimate knowledge of they named the Cooperative School the habits of the birds and animals. A lone Indian sent out into the wilderness without food, clothing Or their pocket money and savings. weapons can soon find all these, as a white man cannot. The best Indian quarter of land from the Canadian Pastory I ever read was an "Indian Winter.'

I like stories of ancient history, especially the ones that tell about Pom- mainder in twenty years at six per peii and Herculaneum, which were buried by a terrible eruption of Mt. skirts of the town and near the school. Vesuvius. It tells of how people were buried asleep in their beds, some in prison, in cellars, some trying to get the profits. All the labor will be supaway with their jewels and money be-

### Our Prize Contest

TO the boy or girl writing the best letter, of less than 250 words on each of the following we will give a cash prize of \$1.

Subject of letter to be mailed by September 8:

"The best day of vacation."

Subject of letter to be mailed by September 15:

"The first day of school."

Write neatly with ink on one side of the sheet only. Give your age, full name and address.

Address your letters to The Boys' and Girls' Dept., Michigan Farmer, Detroit, Mich.

fore they were killed by falling rocks molten lava and hot ashes. Jailers to those organized during the year stood at their posts until the last min- 1919, and which consist of not less ute, and prisoners were not released from the stocks and chains.

I like stories of our own history, such as the "Southerner," which tells miums for members of such calf clubs about the life of Abraham Lincoln, on such basis of distribution among its from his boyhood until his death.

war stories that have been printed in at the time of the holding of the show the Michigan Farmer, also the nature of any such club. Notify R. M. Gow, stories, especially "The White Rabbit." Secretary of the American Jersey Cat-John O. Roberts, Breckenridge, Mich. tle Club, 324 West Twenty-third Street,

#### HONORABLE MENTION.

The Kind of Stories I Like Best. The kind of stories I like best are, Uncle Tom's Cabin, Christobal, a Gay Charmer, and the Castle of Gems. There are a lot of others, but it would take up too much room and

lots of time. I like Uncle Tom's Cabin because it tells about slaves and the way the people used to treat them, and why we should not have slaves nowadays.

Christobal is a very interesting story because it tells how poor people can have a jolly time, the same as other people can have a good time. Christobal was a little lame boy and did not have much of a home.

A Gay Charmer is an interesting story, because it tells about people that have a girl to be their own. They lived in what is called a Grange, the school that the girls went to was in the same building. The girls had good times in school and out of school.

The Castle of Gems is a very interesting story because it is about a man

lots of jewels. He went away to seek I also like stories written about na; a new home, so he went a long way

### SCHOOL CHILDREN'S FARM.

THE school children of Yellow Grass, Saskatchewan, have organ-I like stories of Indian life which ized themselves for a remarkable experiment in cooperative farming. Recently they formed a company which Association, all the stock of which was purchased by the boys and girls with

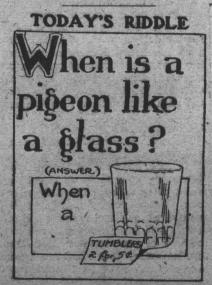
Then they purchased an acre and a cific Railway under its long term, easy payment plan. The cost was about \$35.00, ten per cent down and the recent interest. The land is on the out-The children propose to plant their farm to potatoes this year and share plied by the children.

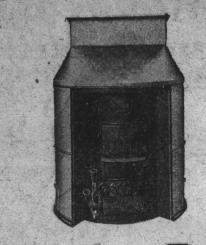
"You can bet it won't take us kids any twenty years to pay for our farm," says Sandy Macdougal, aged fifteen, one of the directors in the association. "Plenty of Tarmers in western Canada have paid for their farms with one crop of wheat, and we propose to pay for our farm with one bumper crop of potatoes. When we begin to make money we will invest it in more land, and in a few years we expect to be running a regular mansize farm. Watch us."

### MARK MEREDITH.

\$2,500 IN PRIZES FOR CALF CLUBS.

THE American Jersey Cattle Club has appropriated the sum of two thousand five hundred dollars for premiums to be given in boys' and girls' calf clubs for the year 1919. Seventyfive dollars of this sum will be presented to each of the first thirty-three clubs reporting to the Secretary of the American Jersey Cattle Club after the date of the publication of this notice. The clubs entitled to participate in this premium distribution are confined than twenty members each, who have purchased Jersey heifers. Said seventy-five dollars to be available for premembers as the calf club receiving the I like Boy Scout stories. I like the same may determine, either prior to or New York City, if you desire to enter your club for such premium money. Each application will be stamped as soon as received at the club office, and the date such application is received will control in determining the first thirty-three clubs reporting.





### **The Pipeless Furnace** That is Easily Installed

The Williamson is Easily Installed-No floor or partitions to tear out. Only one opening in the floor required. No pipes to bother with.

- The Williamson Gives More Heat-The recirculating air system and four-inch insulated cold-air jacket sends the maximum of heat into the house. Only enough warmth is retained in the basement to keep water pipes, fruits and vegetables from freezing.
- The Williamson is Guaranteed by Bond -The liberal bond backed by this milliondollar company guarantees the Williamson to heat your home to an average temperature of 70 degrees, or money back. The firepot is guaranteed for five years.

The Williamson Pays for Itself-Its scientific design, the result of thirty years' experience, insures uniform heat throughout the house with minimum consumption of fuel. Will burn coal, coke, wood, lignite or Pays for itself through fuel-saving. gas. Let the Williamson engineers show you the most / economical way to heat your home. Send for free information blank and also receive free, A illustrated copy of "Comfort at Low Cost," As a remarkably informative book on / co-

The Williamson Heater Co. 467 West 5th St., Cincinnati, Ohio Makers of the Famous Williamson UNDERFEED Furnace The mean of the famous And Cost The press 100 Manne

### **Ring Necked Pheasants**

We can now make shipments of our birds. They will lay next spring—are easy to raise and do not eat one-half as much as chickens These birds are not subject to dis-ease—are hardy and unrelated. You can sell their young and eggs at good prices—they are much more profitable than chickens. Simil Bhosenet Single Pheasants \$ 6.00 Each 5 Hens, 1 Cock (Pen) 30.00 **Genuine Wild Mallard Ducks** Garanteed to be from nothing but genuine Wild Trapped stock - not the coarse semi-wild strain. Will lay next spring. Fine eating-good decoys-

Single Ducks or Drakes \$ 5.00 Each 5 Ducks, 1 Drake (Pen) 25.00

**Bloomfield Giant Bronze Turkeys** 

We have some of the young for sale, from our wonderful 55 pound tom "BLOOMFIELD KING." Why not buy one of our fine extra toms and improve your flock, and the prove your flock of the prove your flock of the prove your flock. The prove your flock, and the prove your flock of the

flock. \$ 15.00 20.00 to 35.00 20.00 35.00 to 50.00 ting orders now for eggs from our fild Mailard Ducks, Turkeys and Rhode Island Red chickens for ry, Orders will be filled in the ro-ley are received.

**Bloomfield Farms** 

America's Largest Game Farm 1714 Penobscot Bldg. Detroit, Michigan



We want the farmer poultrymen an igan to know the Homestead Farms that unites the interests of people Every bird we send out is guaranteed to representation; any bird not satisfactory turned. Pullets and Yearlings--White Leghorn yearling Pul-lets in lots of 6, 12, 25 or 50. A limited number of Barred Rock spring Pullets. Cockerels-Barred Rocks, White Rocks, White Orping-tons, S. C. Black Minorcas, S. O. and R. C. White and Brown Leghorns, Anconas. Quineas, Ducks, Geese--White Pekin, Gray Tonlouse. Turkeys-Bronze, White Holland, Bourbon Reds. Rabbits-Belgians, New Zeelands, Rufus Reds, Flemish Giants. Please send for Fall Price List and for Spring Oata-log, if you do not have one already. STATE FARMS ASSOCIATION, Bloomingdale, Michigan Buff Leghorns, and White Leghorns. 100 early hatched Cockerels from great laying strains \$1.50 each. Dr. WILLIAM SMITH, Petersburg, Mich. Barred Roc's esg contest winners, eggs from strain per setting prepaid by P. P. Circular free. FRED ASTLING, Constantine, Mich. Fowler's Buff Rocks Cockerels \$4 up. Utility eggs for hatching \$2,00 for 15. R, B. FOWLER, Hartford, Mich For sale "Buy the Best" eggs for hatching from 2 Fegg strain Barred Plymouth Rock. \$2.00 per 15, \$5. or 45 eggs. H. B. PROUTOR, Grand Haven, March Hatched R. I. Red Cockerels Both Combs. Write for prices and order early. Interlakes Farm. Box 39, Lawrence, Michigan. R.C. Brown LEGHORNS, M. Pekin Ducks, W. Chi-nese Geese. Place orders early for Mrs. Claudia Betts, Hillsdale, Mich. S. C. Brown Leghorns. Heavy laying strain. Co cockerels and yearling hens for sale. Floyd Robertson, R. 1, Lexington, Ind. C. B. Minoreas. Eggs from pen 1, \$3.00 per 15, from pen 2,\$2.00 per 15. Incubator eggs \$7.00 per mindred. R. W. MILLS, Saline, Mich. Silver Golden and White Wyandottes young breedin stock after Oct. 1st. Choice cockerals \$5 to \$15. Writ your wants now. C. W. Browning, R2 Pertland, Mich

Additional Poultry Ads. on Page 251

Addres

HOMESTEAD FARMS

Name



CONTRON (COL

The Dairy Problem

and all would have been had they not cannot be controverted. How many been boarded up. The paint is all times we have read that simple statewashed off the siding of the houses. ment. It has been sounded in our ears The boards on the barns are many of over and over again by earnest men them flapping in the winds. Fields, seeing the danger of crippling the fences and orchards are fast going dairy business; and still the peril is a down hill. Why?

they could keep up their farms by the outrageous costs of production. use of commercial fertilizer and get So it seems to me milk prices must along without doing work necessary be advanced in the near future. on dairy farms. They sold their cows. ers have come to a time when they For a few years they bought some know very nearly what it costs them commercial fertilizer. Then that be to make a hundred pounds of milk, came more expensive. There was a and they will not keep on making it at temptation to do without, and from a loss. Why should they? No other that point on the road led down fast, business man would long stay in the There was no barnyard manure to use. field after he had done his best to Plowing under green crops seemed a earn a fair profit and determined that useless waste. Soon the farm produc- it could not be done legitimately. ed less hay. Revenue dropped off. Men But as was stated just now, there either sold their places for what they will be a limit to the movement for could get or rented them and moved higher-priced milk. Then what? Now away to town to eat up the eggs they is the time to anticipate that and prehad been storing when the sunny days vent it from materializing. Let reprewere with them. Renting proved un- sentatives of the producers, the dealprofitable. Homes were left unoccu- ers and the consumers meet and, like pied. The firelight went out in them sensible, unselfish men settle upon a and we have what is known as aban- plan of procedure that will be fair and doned farms.

over the east there are scores of these war. Is this visionary? Does it seem farms that are lying idle, awaiting the impractical? Justice and fair-dealing time when a new order of things shall never were visionary or impractical. awaken them to old time prosperity. They never will be.

Dairy farming is the bed-rock of (Continued from page 233). Dairy farming is the bed-rock of the windows have been smashed out, farm fertility. That is a fact which real one, and must become more so, if The owners of these farms thought there be not speedy relief from the

Farm-

just to everybody. It can be done. This picture is not overdrawn. All Peaceful methods are far better than

### The Question of Roughage

seventy dollars a ton at factory. Lin- nish with it a sufficient amount of seed meal is even higher, and cotton- food nutrients to enable the animal to seed meal can be bought for immedi- produce all the milk of which she is ate delivery for less than eighty dol- capable. Were we to feed her largely lars. Corn meal is selling here at four on straw, we should furnish plenty of thirty per hundred and higher, accord- bulk, but she could not give a normal ing to where one buys it, and no grains amount of milk for she would not have are cheap.

high this winter and there seems no large quantities, and no other rough-likelihood of cheap grain for some age there would still be no lack of time to come. The shipments of pro- bulk, but we should find our ration tein concentrates abroad will continue low in protein and lacking in succuand we may expect no slackening in lence. While we might bring up the the demand during the coming months content of protein by nitrogenous for dairy products are high enough in grains, our feeds would still lack the the old world to warrant the payment succulent quality which is indispensof very long prices for these feeds, able to the largest milk flow. Naturally, then, we turn to the consid-. May I pause a moment to discuss eration of the question of roughage for the value of succulent feeds in the proour cows. Talking with our most suc- duction of milk? Last summer a cessful dairymen we find that all of friend of mine who is one of the best them are heavy feeders of roughage. dairymen I know was testing several If we would get the most out of a cow, cows for Register of Merit. One of we must follow nature's way. That is, these cows had produced 735 pounds we must provide for her such feeds of fat the previous year, and we were and such surroundings as are nearest looking for much better things from in harmony with nature's plan for her her in this case, as she entered the

quantities of roughage. She will get first few months was largely increas-along on a highly concentrated ration ed. When August came, the pastures if we compel her to do so, but she pre- were worthless, and the ensilage was fers a bulky ration. The dairy cow of gone. All that hay and grain could do today is floing vastly more work than was done to keep her going right, but today is finding vastly more work than was done to keep her going right, but the cow of long ago, for man has bred it was no use. Her production of fat and selected her for large things in fell to forty pounds in that month, the way of performance. It is there-but it came back during the last fore necessary that she have a much month of her year, when the silo was larger quantity of food nutrients to opened again, to fifty pounds and more. correspond with increased production, In this case, it was not the lack of

ODAY I received quotations of but her ability to dispose of a great cottonseed meal, for delivery in deal of bulk in the ration must not be October, November and Decem- overlooked. Our aim should be to pro-All of these offers were above vide a bulky ration, and still to furanything out of which 'to make it. Grain is going to be scarce and Were we to give her timothy hay in

period of lactation in far better condidevelopment and her well-being. period of lactation in far better condi-The cow was made to consume large tion, and her production, during the

food nutrients that diminished her dairy cattle, but I have never talked milk flow, but the absence of succu- with one, who had made a great suclent feeds.

been riding with our county agent, With alfalfa, with good clover and rounding up the members of our cow- with plenty of ensilage, winter and testing associatioin for another year's summer, the question of roughage for work. In this connection it has been our cows is settled, and the foundation my privilege to talk with a number of of our success in dairying is built. good dairymen. We have had a dry season, and pastures are practically gone, but wherever there is a summer NATION-WIDE DRIVE FOR BETTER silo, the condition of the pasture is not worrying the people at all. If we have rough land that is not suited to the growing of crops, we can get something from it in pasture, even though it may not last throughout the season, but we can not afford to pasture valuable land that is adapted to the growing of general farm crops. We can grow from ten to twenty tons of ensilage on an acre of good land, liberally fertilized, and this amount would feed from three to six cows all summer, while one cow would require from one to three acres of this land on which to live comfortably if it were pasture. It is, of course true, that while the grass was fresh, she would require no other feed, and if fed on ensilage she must receive some nitrogenous feeds to supplement her ration, but there can be no doubt that one will receive much more by tilling valuable lands than by pasturing them.

worth of common red clover. Clover hay, cut at the right time, and properly cured is of great value in the ration of a dairy cow. When we consider what clover does for the soilhow costly is nitrogen when we buy it in commercial fertilizer, and how cheaply we can grow it in the clover plant, it makes us feel anew the importance of getting, a good stand of clover, and makes us miserable indeed when we fail, as many of us have in tion of pure-bred breeding stock of this unusually dry season. There is just one kind of roughage that excels clover, and that is alfalfa. I meet hundreds of good men every year, who have not yet found out that alfalfa can be grown in Michigan successfully. The writer lacked enough hay to carry the cows through the winter, and so he bought the first cutting on fiveacres of alfalfa. This field had been ed preventive measures. yielding good crops of this valuable hay for five years, and this year we pounds from it the first time.

ting, and though the dry weather in- stock progress. jured the second crop, there will be a lot of good hay harvested there yet APPLE BOXES ADVANCE TO 24c. this season.

to grow alfalfa, when so many failed, essitated the move, fruit box manufacbut I doubt if many of these objectors turers have advanced prices four would feel like saying much they could cents per box, making the ruling quosee the results of intelligent efforts in tation twenty-four cents each. This this line. There is a lot of land in is double the figure charged three until it is limed, and some of it needs year's prices. Some big shippers are a good deal of lime, but how much still receiving boxes on contracts made lime can one afford to draw and spread at last year's figure. upon an acre, if it will produce two Western growers are said to be hard and a half tons of this most valuable hit by the advance, as few of them hay at the first cutting, and two more had contracted for boxes owing to the

national reputations as breeders of duce their own boxes.

ess, who did not attribute it largely During the last few days I have to the presence of alfalfa in the ration, W. F. TAYLOR.

STOCK.

(Continued from page 230). has been making an analysis of live stock sentiment as expressed in the farm press and in correspondence received in its various offices. Of all the topics discussed the need for a better quality of domestic animals has been pre-eminent. 'To make the crusade against scrub live stock most effective the department asks for constructive ideas and suggestions from all sources. The following classes of live stock are to be included in the campaign for improvement: Cattle, horses, asses, swine, sheep, goats and poultry.

In spite of the conspicuous merits of the task about to be undertaken there are also a number of obstacles. It is recognized that sentiment in favor of pure-bred sires, while strong, is by no means unanimous. To win the support of those who, through lack of interest No dairyman should forget the or opposition, fail to take their part in the crusade against scrub live stock is one of the problems to be met.

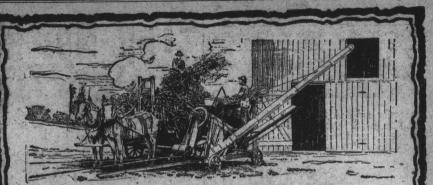
The cost of desirable pure-bred sires is another important factor which has long been an obstacle to live stock improvement. Cooperative ownership divides the expense considerably, and the increased value of the young stock raised also helps to overcome that objection. In addition the campaign is expected to stimulate a greater producgood quality.

The question of controlling the spread of live stock diseases when animals are transferred from one herd to another or are used in community circuits, is still another problem. This matter, however, can be handled by vigilance in field inspection and by the adoption by breeders of well-recogniz-

There are other problems also more or less knotty, but not presenting difficut nine tons, lacking three hundred culties of an insurmountable character. In connection with the drive on scrub No dairyman can afford not to fit a sires there will also be wagered a camportion of his land for alfalfa unless paign against the "scrub pure-bred," as he is certain he cannot grow it, and it is called, in the endeavor to elimihe ought not to give up too soon. nate, as breeding animals, pure-breds There are few valuable farms in the of inferior quality. It will be observed state that will not grow this import- that the plan in no way interferes with ant crop, if properly prepared. A few any work in live stock improvement years ago we had a meeting in our now being conducted, but instead it is neighborhood and a little alfalfa club expected to make all the work more was formed. A man in the employ of definite and effective by providing offithe state went over a certain field that cial recognition for progressive breedday and was not very hopeful about ers, including members of boys' and the future of the alfalfa that had been 'girls' clubs. Friendly competition is sown there a few weeks before. This expected to spring up among commu-year that alfalfa yielded more than nities and entire states, each of which two tons to the acre to the first cut- will seek to excel in the rate of live

Some have talked a good deal about A LLEGING that recent advances in the foolishness of trying to get men A wholesale lumber prices have necthis county that will not grow alfalfa years ago and ten cents over last

cuttings before the season is over? high prices. It is said Yakima grow-Alfalfa is the key to the situation, if ers will pay \$100,000 more for boxes one is after great records in dairy pro- than they expected. The consumption duction. I have talked with many in the valley is said to be five million good dairymen-some of them having boxes yearly. Some large growers pro-



### Feed the Whole Crop

EERING and McCormick huskers and shredders insure the farmer all the feeding value his cornfield contains. This value is largely represented in the stalks, husks and leaves. Shredded by a Deering or McCormick these make prime roughage with high feeding value.

Deering and McCormick huskers and shredders do effective work under a wide range of conditions. The husking rolls have ample capacity for both large and small ears, handling them without shelling the corn. The shredder head is so constructed that the fodder is left in good condition, palatable and nutritious.

Deering and McCormick huskers and shredders are built in 2, 4, 6, 8 and 10-roll sizes. Whatever your necessities, there is a machine exactly suited to take care of them swiftly, economically and efficiently.

There are many unusually fine features about these machines that impress you with their practical value. A nearby International dealer will go over the machine with you, point by point, and the more you see of it, the stronger will be its appeal. Or, by writing the address below full information will be supplied.

INTERNATIONAL HARVESTER COMPANY

OF AMERICA INC.





### **Exposes Cole's Tests**

(Continued from page 230). tion that he might have that affected the records of the association. Mr. breeders will readily appreciate, the Reynolds with Mr. Williams went and tremendous scope and influence that saw Mr. Cole who they reported was the action of the executive committee perfectly willing to tell all he knew or board of dirctors is bound to have, about it, and just what he had done. not alone on the animals whose rec Mr. Cole agreed to come to the meet- ords may be expunged, but the offing of the executive committee in Chi- spring that have been sold in praccago on the fourth and fifth, and did tically all the states. Thousands and come there. There, in the presence of thousands of dollars have been paid the entire committee and a stenog- for the offspring because of the recgrapher, he went on and told his story ord of the dam, and calves of the offof the testing that he had done where he had started in the state of New because of the record of the grandam, York some years ago, went into his and the effect is already apparent in personal history, described many of two or more generations. the animals that he had tested at the dollars, of which he received twofor a single record, in which case he mand, and that action will be taken. had \$2,000 and Mr. Nieman \$1,000.

who owned cows whose records Cole claimed were fraudulently made, all the facts. should be notified before the board took any action, and they were telegraphed and requested to meet at willing to advance opinion when no Cleveland, to which place the commit- responsibility is charged against us, tee adjourned to meet on the sixth.

At the adjourned meeting in Cleveland Mr. Cabana came before the executive committee, told them how surprised and grieved he was that such a thing should have taken place, and that it was absolutely without his knowledge except as to the bonuses. He stated that he had paid these bonuses because others had offered Cole the same amount, and that he felt with the large herd he had he was in position to pay as much as anybody for making records.

Mr. Nieman came before the committee, denied all knowledge of the fraudu- this under legitimate and regular conlent record episode, but did admit that he had been receiving one-third of the bonus as described by Cole.

Mr. Brooks, who had been associated with Mr. Cole in the making of board of directors, because of publi-

about it.

obtainable. The committee adjourned were among the fraudulent ones. to the meet on the twenty-fifth, at which time final action will probably

be taken by the executive committee. The committee realizes, and the spring have been sold at large prices

The executive committee also real-Cabana Farm, explained fully how he izes that the Holstein-Friesian Assohad helped the cows, as he had de- clation of America is a Record Assoscribed it, by 'putting cream in the ciation, that one of its records is that milk. He told who was familiar with of advanced registry; that the mainwhat he was doing, to whom he had tenance of the accuracy of these recimparted the knowledge of the way ords are the reasons for its life, and that the high records were made, and that while the expunging of frauds who he had helping him. He express- from our records may bring disgrace, ly stated, however, that Mr. Cabana anxiety, and loss to some of our breedhad no knowledge whatever of what ers the necessity for quick and accuwas going on. He described the large rate action on the part of the execubonuses he received for making the tive committee or board of directors is records running into the thousands of conceded Ly all. The only question in the mind of any officer or member of thirds and Mr. Nieman, in charge for the board of directors is what is the Mr. Cabana, received one-third. In one right in the premises, what does jusparticular case the bonus was \$3,000 tice, equity, and good conscience de-

There can be no possible question This statement, which took a large about the necessity of expunging records known to be fraudulent. The ining, signed, and sworn to, and the jury and wrong would only be concommittee at that time decided that tinued to permit them to remain, and these persons whose names had been there will be no hesitancy whatever mentioned in connection with this, on the part of the board of directors to take action when in possession of

> We oftimes hear people say what they would do. Some of us are overly but this is a momentous proposition for the Holstein-Friesian Association. The Herd Books of this great industry have been assaulted, and an insult and injury inflicted upon every breeder of the black and white wherever located, because in my opinion the man who has debauched our records has assaulted the good name and fame of the greatest breed of animals on the earth. There was no occasion for exaggeration, there was no occasion for fraud. The Holstein-Friesian cow has demonstrated herself on every occasion to be the most wonderful producer of milk and dairy products in existence, and ditions.

statement to the breeders at this time before action has been taken by the records and who Mr. Cole claimed he cations occurring in papers in Boston had advised of the manner in which and elsewhere, and it seemed to me they were made, and the scheme by that no additional harm could possibly which they helped the cow produce come by giving the membership generthe results, and who lived at Cole's ally a history of the case, although my house, claimed that the records he judgment had been that no report made were all right, that he never should be made until action was taken knew anything about Cole making any by the executive committee or board fraudulent records, that so far as he of directors and the particular animals knew all the records were straight. affected, specified, because the great F Mr. Bernhard Meyer, of Finderne, bulk of animals tested by Cole are not New Jersey, appeared before the com- questioned. It was only possible to mittee, chagrined and humiliated be- perpetrate the fraud on one while testcause of what Cole stated had taken ing six for advanced registry, and place, while testing certain cows re- when certain, supervisors were in cently for him, but he had no knowl- charge at the Cabana Farm he made we had edge of the facts, and the only thing no attempt whatever to perpetrate the the that he knew about the way the cow fraud. Consequently only a small numhad been tested was what Cole said ber of the records made can be charged with fraud, and to have this infor-Several of the persons notified did mation come out before full infornot appear, and as the time was short mation could be given as to the aniit was thought before acting the ex- mals that would be affected, seemed ecutive committee should give them like causing a lot of anxiety among further opportunity, and in the mean- thousands of persons who had bought. time get what further testimony was animals not knowing whether theirs

Respectfully yours, D. D. AITKEN.



### Make This Two Months' Test! No Money Needed -- We Take All The Risk

ARE you going to get your share of the big hog money this year? This is the question you face right now. And there is only

### one way- Hogs Must Be Kept Healthy

Just so long as your hogs suffer and fail to gain weight or die from Indiges-tion, Worms, Thumps and Jerks---you are losing more money for each hun-dred pounds, at the present high prices of pork, than you ever lost before. That is the reason you should be prepared with a safe, sure preventative, a reliable stock conditioner and an absolutely efficient worm destroyer.



is the original, standard made-on-honor salt tonic and worm killer. It kills and destroys all worms in stomach and intestines----and expels them from the body. At the same time, it aids digestion, tones up the system, purifies the blood and gives the animal the strength and stamina to resist disease. It is a worm and parasite destroyer---backed by a guarantee that is a guarantee.

### Pay Only When Results Are Proved

Tell us how many hogs you own---also how many horses, cattle and sheep. We will supply you with enough Felt's Medicated Salt for two months' feeding for all your animals. No strings to this offer. You are to be the judge. Send the coupon today, or drop us a card. Our booklet which states just what Felt's Medicated Salt is guaranteed to

Always keep a good supply of Felt's Medicated Salt on hand. Feed it as a tonic to all farm animals. Re-member--it purifies the blood and prevents disease.

do--and what it will not do--and which tells exactly what this safe, reliable, standard preparation contains-will be sent on request.



S

Make your selection of Clayton, Mich. R. 3.

Felt Medicated Salt Co. 210 North State Street, Ohio Marion, Felt Medicated Salt Co. 210N. State St. Marion, Ohio. Gentlemen .-- Without placing myself under obligation, send me details of your Riskless Two Months' Test Offer. (State number of animals owned) Cattle Sheep ... Hogs . Horses Name Address

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urecs

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AGINAW	GRAND RAFT
HOGS	Shropshires Am offering 16 yearling rams a yearling ews of Senator Bibby b ing. C. J. THOMPSON, Rockford, M
wo glits for sale, sired by C. A. King Joe. Dam is sired by Great Big Half Ton, by Big Half Ton and to fa Disher's Giant Sow. (Breeding.) Bred to Mon- or Big Bob by Luken's Big Bob (same breeding as the or Big Bob by Luken's Big Bob (same breeding as the	Shropshires Rams Bred from McKerr Holker 255014259R)377379 lish strain. Dan Booher, R. 4, Evart, Mich.
rand Champion of the world, Caldwir a tarrowing very valuable litter to possess. Fall pigs farrowing ow. Book orders early. C. A. Boone, Blanchard, Mich.	For Shropshire Yearling Rams write ABMSTRONG BROS., R.3. Fowlerville, N
YORKSHIRES FOR SALE Its bred for October farrowing. WATERMAN & ATERMAN, Meedowland Farm, Ann Arbor, Mich.	For Sale Three Registered Oxford Yearling I \$40 each. Reg. and Del. for quick Don't wait, J. Robert Hicks, St. Johns, Mich.
or Sale. Herd boar Gladstone Sensation. Fine type of Berkshire. Also a few of his pigs, both sex. Fairman Farms, Plymouth, Mich.	For Sale. Registered Oxford rams, 2 ram lam Abbott, Phone Deckerville, 78-3 R. 2, Palms, M
SHEEP .	Extra good yearlings and lamb rams of good b Fing for sale. We are also offering a few aged Floyd J. Anderson, R. D. No. 10, St. Johns, Mich
BUY A SHEEP ait a minute, buy Hampshires. The American Hamp- ire Sheep Association wants to send you a dandy lif- booklet with list of Breeders. Some near you. rite COMFORT A TYLER, Secretary, 22 Wood- nd Ave., Detroit, Mich.	HORSES Percharons, Holsteins, Angus, Shropshires, Or DORR D. BURLL, Elmire, Michigan.
HAMPSHIRES ne of the best bred flocks in America. Home of the ternational Champion ewe of 1918. Rams of all ages as ale. Write me your wants or come and see them. artor R. Emmons, Elsie, Mich.	BREEDERS OF PERCHERO Imporant, (Wt250) Sire of one & two yr. olds. S a ton son with 14 in. bone at two years in see Mares as good. Young stock for sale. Chas. Orgood & Sons, Mendon, Mich
Ingleside Farm Offers recorded Bhropshiros-12 Aock headers, 25 yearling me for range or grade use, 45 eves-mostly yearlings, othert E. Powell, Ionia, Mich.	Percheron Stallions and mares at Poato Prices: Inpetition invited. Chartlotte, 1 For Sale- A Car Of Grade Draft Coll Chas. Bray, Okemos Ingham Co. Mich.
dle Wild Stock Farms from prize winning stock.	Please Mention The Michigan Far

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#### SECOND EDITION.

The markets in this edition were re-vised and corrected on Thursday afternoon, August 28.

#### WHEAT.

Although the wheat market is dull, a feeling of slightly more optimism prevails, with prices advancing a frac-tion on the local market. At the op-ening this week, however, Minneapolis quoted lower figures following increas-ed receipts at western market centers ed receipts at western market centers. Uncertainty as to the future of the food situation causes millers and deal-ers to hesitate about taking hold of the market in a strong market content. market in a strong way. A year ago No. 2 red wheat was selling on the lo-cal market at \$2.22. Present Detroit price

a are	
No. 1	red\$2.27
No. 1	mixed 2.25
NO. 1	white 2.25
NO. 2	red 2.24
No. 3	red 2.20
	CODN
	CORN.

Last week holders of corn sold free-ly upon learning that Texas was ship-ping new corn into the northern states. This forced prices to a lower level but failed to hold them there because the volume of grain from the Lone Star state promises to be only a small fac-tor in the immediate future marketing. Early this week commission houses 

OATS. **OATS.** The position of this grain has been somewhat stronger than that of corn. Prices have followed the quotations of corn, but over a somewhat narrower limit. Receipts have been less than dealers were calculating on. At Chi-cago No. 2 white oats are quoted at 72@76½c; No. 3 white at 73@74c. A year ago standard oats were quoted at Detroit at 71c. Present quotations here are:

 Derivit at 71c.
 11c.
 11c.

#### RYE.

**BEANS.** The market has been quiet through-out the past week. Lacking specula-tive interest and export demand, the dealers have very little to do just now. Quotations on the various markets do not represent actual sales in most cas-es. In New York choice pea beans are quoted at \$8.50; common to fair \$7@ 8.25; medium choice \$9; red kidneys choice \$13.50@14. The trade is slow at Caicago, where the market is feel-ing the influence of the fight on the high cost of living. Hand-picked pea beans, choice to fancy are quoted there at \$8.75@9; do fair to good \$8@8.50; red kidneys \$11.50@12. Detroit's mar-ket is inactive and easy, with prices

Consumers of hay are having diffi-culty in satisfying their wants. De-troit prices are unchanged as follows: No. 1 timothy \$31@32; standard \$30@ 31; light mixed \$29@30; No. 1 clover 31; ligh \$25@26. Pittsburgh.-The market is

with present receipts in excess of the demand. Quotations are: No. 1 tim-othy \$34@34.50; No. 1 light mixed \$30; No. 1 clover mixed \$30@31; No. 1 cle-uar \$20@21 ver \$30@31

### POTATOES.

POTATOES. Receipts of potatoes are increasing and prices show a tendency downward as a result. At Detroit New Jersey Coblers at selling at  $$5.85 \oplus 6$  per 150-lb. sack. At Chicago the demand and movement is slow with the market unsettled and prices lower; the Early Ohios, field run, are selling there at  $$2.40 \oplus 2.50$  per cwt. The Pittsburgh market is in a similar position, having liberal supplies. The late potato crop is developing satisfactorily in some candled current receipts are quoted at  $$2.60 \oplus 2.50$  per cwt. The Pittsburgh market is in a similar position, having liberal supplies. The late potato crop is developing satisfactorily in some tegions, and poorly in other places.  $43 \oplus 44c$ , while the good fresh eggs The late Minnesota crop is good, whilebring  $45 \oplus 48c$ . In Chicago the market

be much higher this winter and com-ing spring. HAY. Consumers of hay are having diffi-culty in satisfying their wants. De-troit prices are unchanged as follows: No. 1 timothy \$31,032; standard \$300

### BUTTER.

BUTTLER. Butter markets are holding about steady with last week, with the prices for high and low grade stock gradual-ly widening. Fancy butter is scarce, and in the majority of our market quo-tations are tending higher. On the other hand, lower grades are accumu-lating and dealers are finding it a lit-tle difficult to move such stock. At Detroit fresh creameries are jobbing at 51½@52c; at Chicago 46@54c; at New York 46@57½c; at Philadelphia western creamery extra is quoted at 57c per pound. **DETROIT CITY MARKET** A good volume of produce is coming to the city market these days. Toma-toes are offered freely, with the prices ranging from \$1@1.25 per bushel; No. 1 apples \$2.50@3; No. 2 \$1.50@2; wax beans \$1.50@2; green beans \$1.75@2.59; cabbage 75e@\$1; grapes at \$3: onions \$2.25@2.75; notatoes \$2.50@32.75; peppers \$1@1.50; pears \$2@3.25; peaches \$2.50@4; plums \$3@4; celery 40@65c per dozen; poultry, live 34c for old; 36c for springers; eggs 52@53c. **WOOL** 

### DETROIT CITY MARKET

#### WOOL

WOOL Merican wool buyers who went to fagland to purchase supplies were dis-appointed in that they found the Brit-or anxious to sell medium and coarse grades and ready to pay a premium for fine wools the same attitude that the trade on this side takes. Mills in this country are working to capacity where sufficient help is available. Some fine unwashed delaine sold in Boston recently at 83c with quotations up to 85c. Michigan fine unwashed clothing thanged hands there last week at 63c. Acording to government figures Ohing the first days of July and August of the year at exactly the same price that the same grade brought for the same days of these months in 1918, or 10 ecc. per pound.

<text>

#### NEWS OF THE WEEK.

### (Continued from page 226).

### Sunday, August 24.

Sunday, August 24. FOLLOWING a raid on Fort Han-cock by Mexican bandits, more Am-erican troops cross the Rio Grande to capture the outlaws.—The American Red Cross is asking for \$15,000,000 to aid in a campaign for the promotion of public health, extending the country's nursing resources, preparing for emer-gency disaster relief and to complete relief measures abroad. Monday, August 25. I IKRAINE troops occupy Kiey, large

 Monday, August 25.
 Morday, August 26.
 Morday, August 26 TIKRAL

### **BUFFALO** Pigs sold here today at \$22 and mix-ed hogs at \$22.50@22.65; compared with other points, these prices are about \$1 too high. Lambs sold up to \$15.75 and calves to \$22.50. DETRIOT

Cattle. Receipts 2,217. Canners 25c lower;

other grades steady.	Hall Mr. Em.
Best heavy steers\$	13.00@14.0
Best handy wt bu steers	10.00@11.5
Mixed steers and heifers	9.50@10.5
Handy light butchers	7.50@ 8.5
Light butchers	6.75@ 7.7
Best cows	9.00@10.0
Butcher cows	7.50@ 8.2
Cutters	6.75@ 7.7
Canners	6.0
Best heavy bulls	9.00@ 9.7
Bologna bulls	8.00@ 8.5
Stock bulls	7.00@ 7.7
Feeders	9.00@10.0
Stockers	7.00@ 8.5
Milkers and springers\$	
Veal Calves.	Stan Labor 10 - 1 - 1

A the influence of the fight on the high cost of living. Handyicked per target is inactive and easy, with prices at \$8.75(mg); do fair to good \$8(98.50; red kindery \$11,318. Morket mostly \$10,100 (11; butchering bulks \$10,000 (11; butchering bulk

An root b steady. SEEDS. In Toledo prime cash cloverseed is racash alsike \$25.45; October \$30.40; prime rime red clover at \$30; October \$30.40; prime \$10.50@18.50. State at universally lower prices \$25.45. The Detroit market quotes \$10.50@18.57; do medium and good at \$10.50@17.75; do remnon and ther surplus seed at comnaritively the state farmers have disposed of their surplus seed at comnaritively tow prices. The outlook is for a short age, and prices are almost certain to \$10.50@18.57; common, medium, good and choice \$7/@14.75; cows, common, medium \$10.50] choice \$10.50] choi

A Thursday, August 28th
Second and choice \$6.75@13.25; built sologna and beef \$6.50@12.25; connect sologna and choice \$7.75@13.75; solocker steers, common, medium, good and choice \$7.75@13.75; solocker steers, and in good and choice \$7.75@13.75; solocker steers, common, medium, good and choice \$7.75@13.75; solocker steers, medium, good and choice \$7.76@13.25; do culls and common \$8.50@
Mong \$7.50
Mong \$1.50; do culls and common \$8.50@
Mong \$1.50; solo and choice \$7.50@9; ewes and and choice \$13@14.75;
Mong \$1.50; be and and choice \$7.50@9; ewes and and choice \$13@14.75;
Mong \$1.50; be and choice \$7.50@9; ewes and and choice \$13@14.75;
Mong \$1.50; be and choice \$7.50@9; ewes and and choice \$13@14.75;
Mong \$1.50; be and choice \$7.50@9; ewes and and choice \$13@14.75;
Mong \$1.50; be and choice \$1.50@14.75;

BUFFALO. Wednesday, August 27, 1919. Cattle. Receipts 10 cars. Market is slow. Prime heavy steers \$16@17; best ship-ping steers \$12.50@14; medium ship-ping steers \$12.50@13; best native yearlings 950 to 1000 bls \$16@17; light native yearlings, good quality at \$12.50@13.50; best handy steers \$12@ 13; fair to good kind at \$10.50@11.50; handy steers and heifers, mixed \$12@ 13; western heifers \$11@12; state heifers \$8.50@9.50; best fat cows at \$10.50@11; butchering cows \$8@9; cutters \$6.50@7; camers \$5@6; fancy bulls \$10@11; butchering bulls \$8@9; common bulls \$7@8; best feeders, 900 to 1000 bbs \$9@10; medium feeders at \$7.50@8.50; stockers \$7@8; light com-mon \$6.50@7; best milkers and spring-ers \$100@150; mediums \$75@90. Hoge.

Live Stock Market Service

Reports for Thursday, August 28th

### BUFFALO.

### FARMERS' CLUB PICNIC.

THE State Farmers' Club picnic held at the M. A. C. grounds at East Lansing on August 21, brought East Lansing on August 21, brought out an attendance of more than five hundred people. At eleven o'clock a trip by auto, led by the college guide, was made. After dinner the following program was carried out from the plat-form which had been nicely arranged form which had been nicely arranged by the college authorities for the occastion.

After community singing led by Mr. J. S. Taylor, Mr. Kedzie made an address of welcome to the people who dress of welcome to the people who had gathered at the college grounds. Following the customary official re-ports, Prof. Anderson, of the College, gave an interesting address upon the supject of "Why the Farmers Organ-ize:" Among the reasons Prof. Anderson, and the Farmers Organ-ize: "Among the reasons Prof. Anderson, and the farmers Organ-ize:" Among the reasons Prof. Anderson on diseases of muck land get a fair price for their product.; (2) because the prices they receive are in the farmer of product.; (2) because the prices they receive are in the supject of the cort of production: because the prices they receive are below that of the cost of production; Statler. (3) because they do not get a living wage for their labor.

Following Prof. Anderson's address, Prof. A. G. Brown explained the work of the animal husbandry department and Prof. F. G. Cox told about the farm crops department trying out new varieties of farm crops. The matter of farm drainage was ably discussed by Prof. Musselman.

The election of officers resulted in the re-election-of the old officers: G. Garden, president; I. W. Cargo, vice-genero president; Mrs. S. R. Holmes, Secre-phate.

One of the best examples of the efforts of community stock breeding to interest the people of an entire county in the practice of breeding better live stock was the delegation of more than two hundred Livingston county Holstein enthusiasts who attended the State Holstein-Friesian Breeders' Picnic at East Lansing on August 23. Led by County Agent Dunks this delegation proved an inspiration to other county agents who are endeavoring to organize strong breeders' organizations in their respective counties.

### VEGETABLE GROWERS' ASSOCIA- in one pint of raw linseed oil ally is a fairly good remedy. TION OF AMERICA.

TION OF AMERICA. The eleventh annual convention of the Vegetable Growers' of America will be held at the Statler Hotel, De-troit, on September 9-12. Program. Tuesday, September 9, 10:00 A. M. The address of welcome by Mayor Cousins, of Detroit, will be responded to by President Howard W. Selby, of the association. The business session and announcements will follow.. Tuesday afternoon the general sub-ject, "Cooperation," will be featured: "Cooperation Among Producers," by Hale Tennant, (in charge of govern-ment and state cooperative work in Michigan; "A Producers' Organization that Cooperates," by Dorr Buell, man-ager of Michigan Potato Growers' Ex-change;" "The Ashtabula. Lettuce Growers' Association," E. A. Dunbar, Ohio; "Cooperation Among the Toledo Gardeners," Louis F. Miller, of Ohio; "Cooperation in New England," How ard W. Selby. Tuesday evening Alfred Vivian of Ohio will present his lecture on "Veg-

Tuesday evening Alfred Vivian of Ohio will present his lecture on "Veg-etable Growing in Foreign Countries."

Wednesday afternoon is given over to an inspection trip. Wednesday ev-ening is theater night, and Thursday morning the visitors will visit Detoit's city markets.

Thursday, September 11, 9:30 A. M.

ed), H. B. Blandford, Michigan. Greenhouse Section—"Development of Vegetable Forcing at Toledo, Ohio," George Bayer, Ohio; Experimental Work in the Greenhouses at the Ohio Experiment Station," Prof. W. J. Green; "Some diseases of Greenhouse Crops and their Control," Prof. A. D.

Statler. Friday, September 12, 9:30 A. M. "Storage of Vegetables," Prof. H. C. Thompson, New York; "Extension Work for Vegetable Growers," C. E. Durst, Anna, Illinois; "Possibilities of State Association Work," Prof. L. M. Montgomery, Ohio; round-table discus-sion of diseases of vegetables and their control, Dr. G. H. Coons. Friday afternoon special committees

Friday afternoon special committees will report and members will elect officers.

Many of the fields of sand, loam, clay and muck of this state respond generously to applications of acid phos-

president; Mrs. S. K. Holmes, secre Funce. Every farmer who has not ascertain-ed to his satisfaction through field trials the need of phosphorus on his LIVINGSTON COUNTY BREEDERS. land should do so.



Worms in Horses.—Can you tell me what to give my horse that is troubled with worms? Have used some of the commercial remedies which failed to help him. R. J. K., Big Rapids, Mich. —Give your horse 1 dr. of santonin and 1 oz. of ground gentian in a bran mash three times a week for two weeks. Giving one ounce of turpentine in one pint of raw linseed oil occasion-ally is a fairly good remedy.

Bowed Tendons.-I have a horse at is troubled with bowed tendons that is troubled with bowed tendons and if there is a remedy for this ail-ment, please let me have it. D. L., Gobleville, Mich.—If your horse trav-els sound, showing no lameness, you had better leave him alone; however, if his tendons are weak, apply one part cantharides and six parts lard ev-ery ten days ery ten days.

ery ten days. Wire Wound on Hock.—I would like to know what to apply to wound on hock caused by wire cut. I had form-ula but lost it. One ingredient was powdered alum. F. R., Swan Creek, Mich.—Mix one part powdered alum, three parts oxide zinc and four parts basic sold to wound twice a day. boric acid to wound twice a day. If this is a malignant, angry appearing fungus, dissolve one ounce of perman-ganate of potash in half a pint of wa-ter, shake well and paint fungus twice

Barren Cows.—This is the first year I have had trouble in getting my cows in calf. Some of them have been serv-ed five or six times. Have heifers that are in same condition, and I might add that we have changed bulls. M. D., Manistee, Mich.—Dissolve 3 ozs. of bi-carbonate of soda in two quarts of clean tepid water and flush vagina two or three hours before the cow is serv-ed. You had better use a fountain sy-ringe. Healthy cows that come in heat Barren Cows.--This is the first year Ohlo will present his lecture on "Vegetable Growing in Foreign Countries."
Wednesday, September 10, 9:30 A. M.
Market Gardeners' Section—"Experimental Work in Connection with Ontario Vegetable Growing," Prof. A.
MacLennan, Toronto; "Developing improved Strains of Varieties of Vegetables," Prof. J. W. Crow, Ontario: "The Use of Commercial Fertilizers and Lime in Connection with Vegetable Growing," Prof. E. O. Fippin.
Greenhouse Section—"Past, Present and Future of Vegetable Forcing," Mir Trank Luce, Ohio; "Vegetable Forcing," Mir Greenhouse." An experience meeting led by Chairman Thompson.
Muck Land Section—"Promising New Crops for Muck Lands," Mrs Osborne; "Growing Plants on Muck Sol," K. L. Woodhams; "Muck Land Problems," Ezza Levin; "Commercial Fertilizers on Muck Land," Prof. E. O. Fippin.



Certified Form

#### MR. POWELL HONORED.

HAROLD POWELL, general G. manager of the California Fruit Growers' Exchange, has been awarded the Cross of Chevalier of the Order of the Crown, by King Albert of Belgium, in recognition of his services in behalf of the Belgian sufferers during the war. News of this honor was received from the president of the executive committee in Brussels. Mr. Powwas in charge of the distribution of perishable food products for the Food Administration in Washington from July, 1917, to May, 1919, during which time his department hastened food to the starving people of Belgium.

#### WELL-ATTENDED PICNICS.

RECENTLY we attended two pic-nics that emphasized to us the renewed interest that is being taken in agriculture and rural life. One of these picnics was in Macomb county where fully 2,500 farmers, their families and friends gathered from all townships of that county to enjoy a good time and to learn what could be gathered by mingling with neighbors and strangers and from the programs. The other was at Diamond Grove in Alpena county, where over 1,500 persons came out to the first county farmers' picnic. Both of these events were under the general supervision of the county agricultural agents and their co-workers in the respective counties. Mr. Kittle, of Macomb county, and Mr. Scheetz, of Alpena, and those who assisted each of them, are to be congratulated

One of the reasons of the generous response appears to be that with the war over, home interests and problems are again taking a major part in our thinking. The horrors and anxiety attending upon the great world conflict did not leave room for the close consideration of matters that in comparison seemed trivial. But with the conflict ended local problems and interests are taking on larger proportions and we feel the necessity and the opportunity of dealing with them more exclusively.

any key that is easiest for the

other instruments. It responds instantly to changes in tempo. Any part of a roll may be

silenced. Either bass or treble

on the entire scale may be

subdued to bring out solos on

other instruments.

Another reason is that the programs of these picnics were so varied that people of nearly every temperament were appealed to. Besides the usual basket lunch and speaking program the managements provided for good music, games and races, demonstrations, contests, etc. If one felt interested in only a single phase of the program he would go for that part of it. However, it is a matter of observation that everybody from the grandmothers down to the babies was on hand at practically every event.

But the enthusiasm and the responsive spirit prevailing has a still more significant cause, we believe. Back of the events have been months of painstaking effort by county and local leaders, with little groups throughout these counties and the leaven that was placed here and there is working into and permeating the whole lump. The spirit of cooperation and organization is in the air and farmers generally have allowed the germ to get seated in their systems. There is no longer much argument on the need of getting together for business, social and educational purposes. In the minds of the majority of these thinking farmers this need is imperative. The only thing that troubles them is "how shall we go about it."

Here, then, is real evidence that the respective county agents are performing well their tasks, are gaining the confidence of the people with whom they are working, and are developing efficient community leaders, all of which will mean much to farming in the months and years ahead.





AUGUST 30, 1919.

@ 1919, G.-D. Co The Amateur Orchestra Plays Best With a Gulbransen The Gulbransen is so Easy to Play that it never tires you. The pedals act so gently that a baby once played the Gulbransen as shown in the picture below — and gave us the idea for our trade mark. You have never tried a player that is a Facet to Play a comparison and player HE Gulbransen is the center -the inspiration—of many a home orchestra. It supplies an accomplished performer on the most difficult and important instrument-the piano. that is so Easy to Play, so responsive, so alive. The one who plays the Gulbransen may not "know one note from another." Yet he can always play without stumbling— smoothly and with freedom of expression —leading and helping the other players. If you will look up our dealer and try the Gulbransen, you will get a new idea of the possibilities of such an instrument. You can play it not only easily, but satisfyingly—to yourself and others. Practically the entire world of music is ready in player rolls. If the orchestra is learn-ing a new piece, the Gulbransen shows "how it goes." It is a great help to band leaders At the right are a few selections appro-At the right are a few selections appro-priate for the home orchestra. Try them on the Gulbransen at our dealer's store. He shows the Baby at the Pedals in his window and newspaper advertising. If you don't know him, write us for his address. for rehearsals. There are many refine-ments in the Gulbransen that help in playing with other in-struments. It transposes to

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